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Billerica, MA 01821 (US). AGOSTINO, Michael, J.; 26 Wolcott Avenue, Andover, MA 01810 (US). (74) Agent: SPRUNGER, Suzanne, A.; Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140 (US).	 (22) International Filing Date: 10 April 1998 ((30) Priority Data: 08/837,312 10 April 1997 (10.04.97) (71) Applicant: GENETICS INSTITUTE, INC. [US/US]; bridgePark Drive, Cambridge, MA 02140 (US). (72) Inventors: JACOBS, Kenneth; 151 Beaumont Aventon, MA 02160 (US). MCCOY, John, M.; 56 Street, Reading, MA 01867 (US). LAVALLIE, R.; 113 Ann Lee Road, Harvard, MA 01451 (US). Lisa, A.; 124 School Street, Acton, MA 01720 (US BERG, David; 2 Orchard Drive, Acton, MA 017 TREACY, Maurice; 93 Walcott Road, Chestnut: 02167 (US). SPAULDING, Vikki; 11 Meadowba Billerica, MA 01821 (US). AGOSTINO, Michael Wolcott Avenue, Andover, MA 01810 (US). (74) Agent: SPRUNGER, Suzanne, A.; Genetics Institute 	87 Car we, Nev 5 Howa Edwar RACI S), MEI 720 (US Hill, M ank Roa el, J.; 2	BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AM, AZ, BY, KG, KZ, MD,			

- (54) Title: SECRETED EXPRESSED SEQUENCE TAGS (sESTs)
- (57) Abstract

Secreted expressed sequence tags (sESTs) isolated from a variety of human tissue sources are provided.

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SECRETED EXPRESSED SEQUENCE TAGS (SESTS)

FIELD OF THE INVENTION

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The present invention provides novel polynucleotides which are expressed sequence tags (ESTs) for secreted proteins.

BACKGROUND OF THE INVENTION

Gargantuan efforts have been employed by various investigational projects to randomly sequence portions of naturally-occurring cDNAs. The rationale behind this approach to identification and sequencing genes is founded in two basic principles: (1) that transcribed cDNAs represent the product of the most important genes, namely those that are actually expressed *in vivo*, and (2) that efforts to sequence genes and other portions of the genome of target organisms which are not actually expressed wastes substantial effort on areas not likely to yield genetic information of therapeutic importance. Thus, the high-throughput sequencing efforts focus on only those portions of the genome which are expressed. The randomly produced cDNA sequences represent "expressed sequence tags" or "ESTs", which identify and can be used as probes for the longer, full-length cDNA or genomic sequence from which they were transcribed.

Although this "shortcut" approach to genomic sequencing presents savings of effort compared to sequencing of the complete genome, it still produced a vast array of ESTs which may not be directly useful as protein therapeutics. To date, the majority of protein-related drug discovery has focused on the use of secreted proteins to produce a desired therapeutic effect. Since the EST approach theoretically identifies all expressed proteins, it produces an EST library which contains a mixture of secreted proteins (such as hormones, cytokines and receptors) and non-secreted proteins (such as, for example, metabolic enzymes and cellular structural proteins), without identifying which ESTs correspond to proteins falling into either category. As a result, these methods are not optimally tailored to the needs of investigators searching for secreted proteins because they must separate the secreted "wheat" from the non-secreted "chaff", wasting effort and resources in the process.

Co-assigned U.S. Patent No. 5,536,637, which is incorporated herein by reference, provides methods for focusing genomic sequencing efforts on sequences encoding the secreted proteins which are of most interest for identification of protein therapeutics. The '637 patent discloses a "signal sequence trap" which selectively identifies ESTs for secreted

proteins, namely "secreted expressed sequence tags" or "sESTs". It is to these sESTs that the present invention is directed.

SUMMARY OF THE INVENTION

The present invention provides for sESTs isolated from a variety of human RNA/cDNA sources.

In preferred embodiments, the present invention provides an isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ 10 ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ 15 ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ 20 ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEO ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ 25 ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, 30 SEO ID NO:110, SEO ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127,

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or a complement of said sequence.

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In other embodiments, the present invention provides an isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:6

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           NO:1517, SEQ ID NO:1518, and SEQ ID NO:1519;
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or a complement of said sequence.

In further embodiments, the present invention provides an isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

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SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEO ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEO ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEO ID NO:72, SEO ID NO:73, SEO ID NO:74, SEO ID NO:75, SEO ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEO ID NO:92, SEO ID NO:93, SEO ID NO:94, SEO ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163,

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or a complement of said sequence.

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In yet other embodiments, the present invention provides an isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

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           NO:1517, SEQ ID NO:1518, and SEQ ID NO:1519;
```

25 or to a complement of said sequence.

30

The invention also provides for proteins encoded by the above-described polynucleotides.

DETAILED DESCRIPTION

The nucleotide sequences of the sESTs of the present invention are reported in the Sequence Listing below. Table 2 lists the "Clone ID Nos." assigned by applicants to each SEQ ID NO: in the Sequence Listing.

Table 2

Each pair of entries in this table consists of the SEQ ID NO (e.g., 1, 2, etc.) followed by the Clone ID No. for such sequence (e.g., B11, B18, etc.). 1 62 DY307 BK8 32 DY611 2 DW1001 63 DY643 94 5 BV216 EC259 3 BV274 33 DW831 64 DY656 95 DY711 4 DW859 65 DY675 96 EC248 BV48 34 5 DN351 35 DW875 66 DY988 97 EC32 6 DW888 67 DY992 98 DO703 DN381 36 7 DW901 99 10 DN405 37 68 DY225 DO713 8 DW902 69 DY236 DR294 DU651 38 100 9 DW904 70 101 DU660 39 DY242 DY1 10 DU675 40 DW905 71 DY254 102 DY 10 DW906 72 11 DU684 41 DY914 103 DY 106 DW929 73 104 DY117 15 12 DD364 42 DY946 13 43 DW981 74 DY955 105 DY 148 DD379 14 44 DX191 75 DY959 106 DY 167 DD389 15 DD401 45 DX219 76 DY961 107 DY17 77 DY981 108 DY174 16 DD413 46 DX245 109 DY175 20 17 DD426 47 DX256 78 DY357 110 DY178 18 DD428 48 DX267 79 DY358 19 DN293 49 DX66 80 DY381 111 DY23 112 DY27 20 DD454 50 DX81 81 DY413 113 DY41 21 51 DY780 82 DY414 DD472 114 DY42 25 22 52 DY803 83 DY415 DD475 23 53 DY809 84 DY431 115 DY8 DT306 54 85 DY433 116 DY93 24 DW282 DY814 EB107 25 DW300 55 DY261 86 DY436 117 EB113 87 DY543 118 26 DW303 56 DY264 EB163 119 30 27 DW323 57 DY266 88 DY565 89 120 EB25 28 DT258 58 DY271 DY585 29 59 DY287 90 DY331 121 **EB77** DW246 122 EC172 30 DW324 60 DY297 91 DY586

92

DY696

DY306

61

31

DW333

EC302

	124	EC317	158	EJ90	192	EJ224	226	EP378
	125	EC328	159	EM270	193	EJ240	227	EP38
	126	EC341	160	EM278	194	EJ254	228	EO109
	127	EC349	161	EN186	195	EJ258	229	EO120
5	128	ED105	162	EN215	196	EJ265	230	EQ166
	129	ED21	163	EN217	197	EJ280	231	EQ187
	130	ED23	164	EN234	198	EJ285	232	EQ188
	131	ED30	165	EN239	199	EJ307	233	EQ190
	132	ED43	166	EN256	200	EJ38	234	EQ194
10	133	ED54	167	EN260	201	DO235	235	EQ207
	134	EE177	168	EN264	202	DO238	236	EQ208
	135	EE65	169	EN266	203	DO263	237	EQ214
	136	DQ365	170	EN271	204	DO319	238	EQ215
	137	DK393	171	EN274	205	EJ324	239	EQ218
15	138	DK399	172	EN287	206	EN470	240	EQ219
	139	DO1128	173	EN310	207	EN477	241	EQ220
	140	DO1150	174	EN342	208	EN539	242	EQ221
	141	DZ34	175	EN363	209	EP451	243	EQ226
	142	DZ42	176	EN423	210	EO10	244	EQ229
20	143	EE116	177	EH106	211	EO14	245	EQ230
	144	EE93	178	EH145	212	EO48	246	EQ231
	145	DJ387	179	EH166	213	EO58	247	EQ233
	146	DJ402	180	EH167	214	EO60	248	EQ237
	147	DN551	181	EH178	215	EO62	249	EQ261
25	148	DN559	182	EH180	216	EO68	250	EQ272
	149	DN603	183	EH186	217	EO89	251	ER104
	150	DN629	184	EH188	218	EO90	252	ER106
	151	DN631	185	EH189	219	EO92	253	ER128
	152	DOI1	186	EH190	220	EO97	254	ER134
30	153	DO118	187	EH203	221	EP108	255	ER174
	154	DO15	188	EH206	222	EP165	256	ER201
	155	DO157	189	EH95	223	EP219	257	ER77
	156	DO19	190	EJ148	224	EP234	258	ER80
	157	EJ53	191	EJ179	225	EP277	259	ER97

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	261	ES306	295	ER408	329	FB38	363	FG265
	262	ES35	296	ER418	330	FB71	364	FG274
	263	ES37	297	ER430	331	FB78	365	FG278
5	264	ES206	298	ER471	332	FC12	366	FG281
	265	ET13	299	ER476	333	FB349	367	FG291
	266	ET22	300	ER493	334	FC136	368	FG294
	267	ET39	301	ER496	335	FC170	369	FG340
	268	ET84	302	ER498	336	FD152	370	FG363
10	269	EF121	303	ER524	337	FE141	371	FG372
	270	EF129	304	EW13	338	FE5	372	FG380
	271	EF45	305	EX25	339	FD131	373	FG401
	272	EF48	306	EX53	340	EC425	374	FG99
	273	EF5	307	EY165	341	EC428	375	F1203
15	274	EF88	308	EY29	342	ED204	376	FE311
	275	EG194	309	EZ35	343	ED205	377	FE315
	276	EG251	310	EZ4	344	ED210	378	FE322
	277	EH12	311	EZ88	345	ED223	379	FE329
	278	EH213	312	EZ93	346	DI301	380	FE341
20	279	EH22	313	FA8	347	DI303	381	FE366
	280	EH221	314	EV234	348	DI310	382	FE375
	281	EH248	315	EW101	349	DI39	383	FE412
	282	EH29	316	EW109	350	DJ90	384	FE415
	283	EH61	317	EW150	351	DM290	385	FE442
25	284	EH68	318	EY197	352	DM304	386	FE472
	285	EH78	319	EY206	353	DN618	387	FE557
	286	EH80	320	EY215	354	DN896	388	FE568
	287	ER311	321	EZ209	355	DN904	389	FE619
	288	ER329	322	FA139	356	FG119	390	FE676
30	289	ER343	323	FA171	357	FG126	391	FE682
	290	ER366	324	FA252	358	FG140	392	FF150
	291	ER369	325	FA28	359	FG193	393	FF153
	292	ER381	326	FA316	360	FG197	394	FF168
	293	ER395	327	FA95	361	FG198	395	FF175

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	397	FF46	431	FH170	465	FN228	499	FO209
	398	FF49	432	FH24	466	FN229	500	FO211
	399	FF97	433	FH3	467	FN251	501	FO215
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	401	FG437	435	FH56	469	FP134	503	FO254
	402	FG441	436	FH6	470	FP14	504	FO261
	403	FG448	437	FH66	471	FP163	505	FO267
	404	FG45	438	FM109	472	FP172	506	FO275
10	405	FG492	439	FM13	473	FP71	507	FO290
	406	FG504	440	FM15	474	FP87	508	FO292
	407	FG565	441	FM150	475	EI118	509	FO316
	408	FG567	442	FM170	476	EI16	510	FO324
	409	FG57	443	FM28	477	EI187	511	FO327
15	410	FG577	444	FM3	478	E1203	512	FO348
	411	FG615	445	FM32	479	EI228	513	FO36
	412	FG625	446	FM36	480	EI231	514	FO38
	413	FG630	447	FM60	481	EI236	515	FO40
	414	FG659	448	FM86	482	EI239	516	FO66
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	416	FG91	450	FM98	484	EI250	518	FP185
	417	FG884	451	FM99	485	EI255	519	FP193
	418	FG891	452	FN172	486	EI264	520	FP233
	419	FG909	453	FN19	487	EI273	521	FP239
25	420	FG912	454	FN29	488	FO11	522	FP246
	421	FG949	455	FN53	489	FO125	523	FP262
	422	FG952	456	FK199	490	FO128	524	FP268
	423	FG965	457	FK217	491	FO133	525	FP271
	424	FH10	458	FK23	492	FO135	526	FP273
30	425	FH116	459	FK32	493	FO147	527	FQ505
	426	FH123	460	FK59	494	FO152	528	DN647
	427	FH13	461	FK78	495	FO160	529	DN650
	428	FH136	462	FN189	496	FO173	530	DN676
	429	FH149	463	FN191	497	FO182	531	DO94

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	535	FR473	569	DN850	603	FY265	637	FY388
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	538	FS107	572	DO935	606	FY321	640	GA48
	539	FS143	573	DO938	607	FY354	641	GA63
	540	FS173	574	DO944	608	FY356	642	GA64
10	541	FS28	575	DO949	609	FY421	643	DT382
	542	FS31	576	DO952	610	FY430	644	DT385
	543	FS40	577	DQ12	611	FY455	645	DT388
	544	FV35	578	DT2	612	FY484	646	DT464
	545	FV49	579	DT44	613	FY524	647	DT470
15	546	FV68	580	DT53	614	FY530	648	DT478
	547	FW13	581	DT8	615	FY628	649	DT482
	548	FW64	582	FQ661	616	DQ242	650	DU114
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	552	FY65	586	FR927	620	DQ304	654	DU156
	553	FY72	587	FR938	621	DQ313	655	DU157
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	555	DN1118	589	FV122	623	DQ54	657	FZ87
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	557	DN782	591	FV132	625	GU215	659	DW309
	558	DN793	592	FV84	626	FM481	660	DXI
	559	DN795	593	FV85	627	DT117	661	DX15
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30	561	DN809	595	FX115	629	DT139	663	DX22
	562	DN810	596	FX127	630	DT164	664	DX29
	563	DN814	597	FX154	631	DU160	665	DX3
	564	DN815	598	FY187	632	DU164	666	DX4
	565	DN823	599	FY199	633	DU166	667	FZ428

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	669	DY474	703	FZ254	737	DY516	771	GF179
	670	FZ139	704	FZ346	738	DY529	772	GF99
	671	FX76	705	GA82	739	DY530	773	GB261
5	672	FX65	706	GA85	740	DY538'	774	GC499
	673	FX55	707	GA91	741	DY830	775	GD177
	674	DU536	708	DX299	742	DY857	776	GD7
	675	FZ534	709	DX304	743	EA17	777	GE300
	676	DU515	710	DX309	744	EA36	778	DX179
10	677	DU475	711	DX316	745	GG73	779	DY757
	678	DU462	712	DX328	746	DU544	780	EC392
	679	DU353	713	DX336	747	DU560	781	EE15
	680	DU341	714	DX354	748	DZ109	782	DU408
	681	DU306	715	DX357	749	EA105	783	DU410
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	683	DU244	717	DX363	751	EA110	785	DU447
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	688	GC456	722	EA89	756	EA82	790	DX146
	689	GG126	723	EA9	757	GE361	791	DX153
	690	GG129	724	EA90	758	FZ510	792	DX157
	691	GG152	725	GC52	759	GE387	793	EE4
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	693	GG182	727	GC585	761	GE463	795	FZ683
	694	GG217	728	GC74	762	GE466	796	GD309
	695	GG440	729	GE28	763	GE468	797	GD358
	696	GG619	730	GE41	764	GE471	798	GG543
30	697	DX279	731	GE51	765	GE524	799	FX516
	698	DX288	732	GE60	766	GE539	800	FX536
	699	DX290	733	GE68	767	GE548	801	FZ1032
	700	DX295	734	GE80	768	GE549	802	FZ1041
	701	DX298	735	GE82	769	GE99	803	FZ1072

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	805	GA147	839	DD127	873	GP329	907	EM42
	806	GA284	840	DD177	874	GP338	908	EM58
	807	DY723	841	D D20 4	875	GP340	909	GF185
5	808	DY737	842	DD207	876	GQ13	910	GF187
	809	DY739	843	DD211	877	GQ18	911	GF196
	810	EC399	844	DD217	878	GQ22	912	GF197
	811	EM254	845	DD504	879	GQ38	913	GF207
	812	FX194	846	DD509	880	GQ40	914	GF209
10	.813	FX234	847	DD518	881	GQ56	915	-GF212
	814	FX281	848	DD537	882	GQ6	916	GF218
	815	FX317	849	DD541	883	DD312	917	GF221
	816	FX353	850	DD71	884	DD352	918	GF222
	817	FX395	851	DH941	885	EK145	919	GF250
15	818	GA293	852	DQ194	886	EK208	920	GF255
	819	GA321	853	DQ204	887	EK223	921	GF256
	820	GA327	854	DQ215	888	EK234	922	GI28
	821	GB160	855	DQ216	889	EK480	923	GI3
	822	GA132 -	856	EK423	890	EK491	924	G130
20	823	GA135	857	EK424	891	EK499	925	GI51
	824	GA205	858	EK450	892	EK571	926	GI63
	825	GB814	859	EL15	893	EK578	927	GI7
	826	GF87	860	DD285	894	EK581	928	GI74
	827	GG687	861	EK598	895	EK591	929	G188
25	828	GG692	862	EK622	896	DD215	930	G19
	829	GG694	863	EK626	897	EK634	931	DY874
	830	GG702	864	EK649	898	EL358	932	DY886
	831	GG705	865	GO653	899	EL360	933	DY900
	832	GP23	866	GP107	900	EL387	934	EM358
30	833	GP56	867	GP123	901	EL391	935	EM381
	834	GP61	868	GP168	902	EMIII	936	EM386
	835	GP65	869	GP232	903	EM112	937	EM388
	836	DD115	870	GP274	904	EM12	938	EM396
	837	DD119	871	GP297	905	EM125	939	EM397

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	941	EM406	975	GT6	1009	HU141	1043	EY304
	942	EM408	976	HR712	1010	HS555	1044	EY313
	943	EM409	977	HR704	1011	HR95	1045	FK295
5	944	EM423	978	HR693	1012	HR906	1046	FK301
	945	EM424	979	HR628	1013	HR76	1047	FK317
	946	FE196	980	HR605	1014	HR753	1048	FK328
	947	FE204	981	EK341	1015	HR731	1049	FK349
	948	FE205	982	EK390	1016	EN116	1050	FK350
10	949	FE207	983	EN108	1017	EM341	1051	FK354
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	956	FE271	990	FQ609	1024	FM208	1058	GX167
	957	GF296	991	FQ612	1025	FM229	1059	GX183
	958	GN38	992	FS49	1026	FQ419	1060	GX208
20	959	GN45	993	FS87	1027	GX48	1061	GX210
	960	GN60	994	GM101	1028	GX5	1062	FM369
	961	GN68	995	GM103	1029	GX92	1063	FM375
	962	GN82	996	GM114	1030	FM289	1064	FM389
	963	GR286	997	GM129	1031	FM290	1065	FM432
25	964	EN10	998	GM153	1032	FM296	1066	FM459
	965	EN37	999	GM158	1033	FM300	1067	FM462
	966	FK127	1000	GM196	1034	FM312	1068	FM479
	967	FK151	1001	GM243	1035	GU512	1069	GX301
	968	GS26	1002	GM259	1036	GU534	1070	GX336
30	969	GS4	1003	GM266	1037	GU608	1071	GX354
	970	EV391	1004	HV38	1038	GX159	1072	GX361
	971	FG535	1005	HV23	1039	GX97	1073	GX403
	972	FG852	1006	HV199	1040	EW304	1074	GX408
	973	GT28	1007	HV181	1041	EY281	1075	GX418

	1076	GU830	1110	GG3	1144	GN97	1178	HE91
	1077	GU925	1111	HA510	1145	HB443	1179	HF289
	1078	GU940	1112	HA422	1146	HC324	1180	HG444
	1079	GX1031	1113	HA382	1147	HC327	1181	HF137
5	1080	GX496	1114	HA360	1148	HC505	1182	HD706
	1081	GX504	1115	HA249	1149	HC724	1183	HG710
	1082	GX509	1116	HA199	1150	HA1054	1184	HG733
	1083	GX536	1117	HA192	1151	HB1041	1185	HG775
	1084	GX540	1118	GZ568	1152	HB746	1186	HI222
10	1085	GX645	1119	GY520	1153	HB752	1187	HI39
	1086	GX700	1120	GY515	1154	HB975	1188	HH215
	1087	GX730	1121	GY330	1155	HC705	1189	HH357
	1088	GX750	1122	GY307	1156	HA791	1190	HH372
	1089	GX753	1123	HA81	1157	HC1002	1191	HH378
15	1090	GX760	1124	HA73	1158	HC1071	1192	HH390
	1091	GX814	1125	HA29	1159	HC1089	1193	HH396
	1092	GX851	1126	HA24	1160	HC831	1194	HH404
	1093	GX909	1127	HA18	1161	HC986	1195	HH433
	1094	GY102	1128	GZ78	1162	GY72	1196	HI2
20	1095	GY105	1129	GZ70	1163	HG159	1197	HH544
	1096	GY138	1130	GZ7	1164	HG620	1198	HH608
	1097	GY211	1131	GZ496	1165	HD161	1199	HH612
	1098	GX1082	1132	GZ495	1166	HD353	1200	HH625
	1099	GX1108	1133	GZ485	1167	HD378	1201	HH640
25	1100	GX1140	1134	GZ436	1168	HD417	1202	HH648
	1101	GX1165	1135	GZ420	1169	HD427	1203	HH691
	1102	GX576	1136	GZ378	1170	HD434	1204	HJ120
	1103	GX595	1137	GZ37	1171	HD499	1205	НЈ140
	1104	GX606	1138	GY558	1172	HD569	1206	HJ181
30	1105	GX619	1139	GG894	1173	HD627	1207	HJ184
	1106	GG874	1140	GG907	1174	HD648	1208	НJ22
	1107	GG858	1141	GN114	1175	HE111	1209	HJ253
	1108	GG836	1142	GN115	1176	HE142	1210	HJ265
	1109	GG8	1143	GN145	1177	HE178	1211	HJ362

	1212	HJ395	1246	HM372	1280	HO722	1314	HT166
	1213	HJ411	1247	HM380	1281	HO799	1315	HT176
	1214	HJ444	1248	HM422	1282	HO801	1316	HT193
	1215	HJ65	1249	HM444	1283	HO817	1317	HT43
5	1216	HJ674	1250	HM497	1284	HO82	1318	HT81
	1217	HJ705	1251	HM544	1285	HK719	1319	HW149
	1218	HJ81	1252	HM643	1286	HO1077	1320	HW152
	1219	HJ862	1253	HN72	1287	HO1080	1321	HW190
	1220	НЈ949	1254	HN78	1288	HO1087	1322	HW204
10	1221	HK10	1255	HO107	1289	HO1143	1323	HW221
	1222	HK26	1256	HO237	1290	HO1176	1324	HW243
	1223	HK60	1257	HO266	1291	HO1183	1325	HW261
	1224	HJ1037	1258	HO277	1292	HO1216	1326	HW368
	1225	НЈ968	1259	HO283	1293	HO1271	1327	HW74
15	1226	HJ981	1260	HO292	1294	HO1329	1328	HX10
	1227	HJ994	1261	HO294	1295	HO1434	1329	HX102
	1228	НЈ995	1262	HO305	1296	HO1441	1330	HX110
	1229	HK189	1263	HO315	1297	HO1453	1331	HX113
	1230	HK234	1264	HO332	1298	HO854	1332	HX155
20	1231	HK650	1265	HO358	1299	HO868	1333	HX188
	1232	HK658	1266	HO476	1300	HP262	1334	HX29
	1233	HK669	1267	HO481	1301	HQ36	1335	HX50
	1234	HK713	1268	HO502	1302	HQ72	1336	HY13
	1235	HK899	1269	HO54	1303	GM16	1337	HY3
25	1236	HE187	1270	HO60	1304	GM286	1338	HY55
	1237	HK162	1271	HO600	1305	GM295	1339	HY57
	1238	HL25	1272	HO617	1306	GM335	1340	HZ15
	1239	HL380	1273	HO640	1307	GM365	1341	HZ8
	1240	HL73	1274	HO663	1308	HR397	1342	IAI
30	1241	HM50	1275	HO688	1309	HR560	1343	IA21
	1242	HM54	1276	HO692	1310	HR593	1344	IA32
	1243	HM91	1277	HO693	1311	HR598	1345	IA36
	1244	HM236	1278	HO703	1312	HT13	1346	IB2
	1245	HM280	1279	HO717	1313	HT137	1347	IC2

	1348	IC9	1382	IA167	1413	HW786	1447	IE362
	1349	HY229	1383	IA183	1414	HW810	1448	IH32
	1350	HY244	1384	IA188	1415	HW846	1449	III13
	1351	HY344	1385	IA200	1416	HW849	1450	I J101
5	1352	HY370	1386	IA220	1417	IB15	1451	IJ163
	1353	HY374	1387	IA64	1418	1B19	1452	IJ167
	1354	HY404	1388	IA69	1419	1B22	1453	IF28
	1355	HY419	1389	IA86	1420	1B28	1454	IF376
	1356	HY435	1390	HW936	1421	IB36	1455	IF456
10	1357	HZ103	1391		1422	IB49	1456	IF87
	1358	HZ109	HW10	17	1423	IC103	1457	IJ1201
	1359	HZ111	1392	-	1424	IC126	1458	IJ1220
	1360	HZ115	HW10	44	1425	IC132	1459	IJ1237
	1361	HZ71	1393		1426	IC142	1460	IJ1240
15	1362	HZ76	HW10	59	1427	IC155	1461	IJ1247
	1363	HZ88	1394	HW430	1428	IC54	1462	IJ1287
	1364	HW115	1395	HW432	1429	IC87	1463	IJ1292
	1365	HW128	1396	HW440	1430	IC92	1464	IJ1299
	1366	HW477	1397	HW456	1431	IE146	1465	IJ583
20.	1367	HW483	1398	HW518	1432	IE147	1466	1J592
	1368	HW491	1399	HW591	1433	IE149	1467	IJ597
	1369	HW499	1400	HW598	1434	IE169	1468	IJ629
	1370	HW507	1401	HW627	1435	IZ6	1469	1J638
	1371	HZ116	1402	HW646	1436	JE33	1470	IJ640
25	1372	HZ162	1403	HW649	1437	JE44	1471	1J642
	1373	HZ185	1404	HW693	1438	JE52	1472	IJ6 8 6
	1374	HZ201	1405	HW695	1439	IE10	1473	IG25
	1375	HZ224	1406	HW697	1440	IE47	1474	IG35
	1376	HZ262	1407	HW711	1441	IE73	1475	1H40
30	1377	IA106	1408	HW715	1442	JA37	1476	IH54
	1378	IA110	1409	HW730	1443	JA78	1477	IJ288
	1379	IA114	1410	HW732	1444	JB12	1478	1J76
	1380	IA153	1411	HW741	1445	JB23	1479	IF292
	1381	IA157	1412	HW750	1446	1E352	1480	IF513

	1481	IF548	1515	IQ58
	1482	IJ1043	1516	15488
	1483	IJ1048	1517	IS564
	1484	IJ1054	1518	IT23
5	1485	IJ1088	1519	IT44
	1486	1J777		
	1487	IJ887		
	1488	1J907		
	1489	IJ928		
10	1490	1J942		
	1491	IL1		
	1492	IL100		
•	1493	IL112		
	1494	IL28		
15	1495	IK11		
	1496	IK14		
	1497	IK20		
	1498	IK203		
	1499	IK209		
20	1500	IK212		
	1501	IK343		
	1502	IK73		
	1503	IO134		
	1504	IO138		
25	1505	IO151		
	1506	10202		
	1507	IO209		
	1508	1031		
	1509	IO356		
30	1510	IO420		
	1511	IO62		
	1512	IQ15		
	1513	IQ45		
	1514	IQ55		

The "Clone ID No." for a particular clone consists of one or two letters followed by a number. The letters designate the tissue source from which the sEST was isolated. Table 3 below lists the various sources which were run through applicants' signal sequence trap. Thus, the tissue source for a particular sEST sequence can be identified in Table 3 by the one and two letter designations used in the relevant "Clone ID No.". For example, a clone designated as "BA312" would have been isolated from a human placenta (26 yrs.) library (i.e., selection "BA") as indicated in Table 3.

As used herein, "polynucleotide" includes single- and double-stranded RNAs, DNAs and RNA:DNA hybrids.

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As used herein a "secreted" protein is one which, when expressed in a suitable host cell, is transported across or through a membrane, including transport as a result of signal sequences in its amino acid sequence. "Secreted" proteins include without limitation proteins secreted wholly (e.g., soluble proteins) or partially (e.g., receptors) from the cell in which they are expressed. "Secreted" proteins also include without limitation proteins which are transported across the membrane of the endoplpasmic reticulum.

Fragments of the proteins of the present invention which are capable of exhibiting biological activity are also encompassed by the present invention. Fragments of the protein may be in linear form or they may be cyclized using known methods, for example, as described in H.U. Saragovi, et al., Bio/Technology 10, 773-778 (1992) and in R.S. McDowell, et al., J. Amer. Chem. Soc. 114, 9245-9253 (1992), both of which are incorporated herein by reference. Such fragments may be fused to carrier molecules such as immunoglobulins for many purposes, including increasing the valency of protein binding sites. For example, fragments of the protein may be fused through "linker" sequences to the Fc portion of an immunoglobulin. For a bivalent form of the protein, such a fusion could be to the Fc portion of an IgG molecule. Other immunoglobulin isotypes may also be used to generate such fusions. For example, a protein - IgM fusion would generate a decayalent form of the protein of the invention.

The present invention also provides both full-length and mature forms of the disclosed proteins. The full-length form of the such proteins is identified in the sequence listing by translation of the nucleotide sequence of each disclosed clone. The mature form of such protein may be obtained by expression of the disclosed full-length polynucleotide (preferably those deposited with ATCC) in a suitable mammalian cell or other host cell. The sequence of the mature form of the protein may also be determinable from the amino acid sequence of the full-length form.

The present invention also provides genes corresponding to the cDNA sequences disclosed herein. The corresponding genes can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include the preparation of probes or primers from the disclosed sequence information for identification and/or amplification of genes in appropriate genomic libraries or other sources of genomic materials.

Where the protein of the present invention is membrane-bound (e.g., is a receptor), the present invention also provides for soluble forms of such protein. In such forms part or all of the intracellular and transmembrane domains of the protein are deleted such that the protein is fully secreted from the cell in which it is expressed. The intracellular and transmembrane domains of proteins of the invention can be identified in accordance with known techniques for determination of such domains from sequence information.

Species homologs of the disclosed polynucleotides and proteins are also provided by the present invention. Species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source from the desired species.

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The invention also encompasses allelic variants of the disclosed polynucleotides or proteins; that is, naturally-occurring alternative forms of the isolated polynucleotide which also encode proteins which are identical, homologous or related to that encoded by the polynucleotides disclosed herein.

The invention also includes polynucleotides with sequences complementary to those of the polynucleotides disclosed herein.

The present invention also includes polynucleotides capable of hybridizing, preferably under reduced stringency conditions, more preferably under stringent conditions, most preferably under highly stringent conditions, to polynucleotides described herein. Examples of stringency conditions are shown in Table 1 below: highly stringent conditions are those that are at least as stringent as, for example, conditions A-F; stringent conditions are at least as stringent as, for example, conditions G-L; and reduced stringency conditions are at least as stringent as, for example, conditions M-R.

Table 1

	Stringenc y Condition	Polynucleotide Hybrid	Hybrid Length (bp) [‡]	Hybridization Temperature and Buffer	Wash Temperature and Buffer [†]
5	A	DNA:DNA	≥ 50	65°C; 1xSSC -or- 42°C; 1xSSC, 50% formamide	65°C; 0.3xSSC
	В	DNA:DNA	< 50	T _B *; 1xSSC	T _B *; 1xSSC
	С	DNA:RNA	≥ 50	67°C; 1xSSC -or- 45°C; 1xSSC, 50% formamide	67°C; 0.3xSSC
	D	DNA:RNA	< 50	T _D *; lxSSC	T _D *; 1xSSC
	E	RNA:RNA	≥ 50	70°C; 1xSSC -or- 50°C; 1xSSC, 50% formamide	70°C; 0.3xSSC
10	F	RNA:RNA	< 50	T _F *; 1xSSC	T _F *; 1xSSC
	G ·	DNA:DNA	≥ 50	65°C; 4xSSC -or- 42°C; 4xSSC, 50% formamide	65°C; 1xSSC
	Н	DNA:DNA	< 50	T _H *; 4xSSC	T _H *; 4xSSC
	I	DNA:RNA	≥ 50	67°C; 4xSSC -or- 45°C; 4xSSC, 50% formamide	67°C; 1xSSC
	ι	DNA:RNA	<50	T _J *; 4xSSC	T,*; 4xSSC
15	К	RNA:RNA	≥ 50	70°C; 4xSSC -or- 50°C; 4xSSC, 50% formamide	67°C; 1xSSC
	L	RNA:RNA	< 50	T _L *; 2xSSC	T _L *; 2xSSC
	М	DNA:DNA	≥ 50	50°C; 4xSSC -or- 40°C; 6xSSC, 50% formamide	50°C; 2xSSC
	N	DNA:DNA	< 50	T _N *; 6xSSC	T _N *; 6xSSC
	0	DNA:RNA	≥ 50	55°C; 4xSSC -or- 42°C; 6xSSC, 50% formamidc	55°C; 2xSSC
20	Р	DNA:RNA	<50	T _P *; 6xSSC	Tp*; 6xSSC
	Q	RNA:RNA	≥ 50	60°C; 4xSSC -or- 45°C; 6xSSC, 50% formamide	60°C; 2xSSC
	R	RNA:RNA	< 50	T _R *; 4xSSC	T _R *; 4xSSC

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[‡]: The hybrid length is that anticipated for the hybridized region(s) of the hybridizing polynucleotides. When hybridizing a polynucleotide to a target polynucleotide of unknown sequence, the hybrid length is assumed to be that of the hybridizing polynucleotide. When polynucleotides of known sequence are hybridized, the hybrid length can be determined by aligning the sequences of the polynucleotides and identifying the region or regions of optimal sequence complementarity.

[†]: SSPE (1xSSPE is 0.15M NaCl, 10mM NaH₂PO₄, and 1.25mM EDTA, pH 7.4) can be substituted for SSC (1xSSC is 0.15M NaCl and 15mM sodium citrate) in the hybridization and wash buffers; washes are performed for 15 minutes after hybridization is complete.

 $^*T_B - T_R$: The hybridization temperature for hybrids anticipated to be less than 50 base pairs in length should be 5-10°C less than the melting temperature (T_m) of the hybrid, where T_m is determined according to the following equations. For hybrids less than 18 base pairs in length, $T_m(^\circ\text{C}) = 2(\# \text{ of } A + T \text{ bases}) + 4(\# \text{ of } G + C \text{ bases})$. For hybrids between 18 and 49 base pairs in length, $T_m(^\circ\text{C}) = 81.5 + 16.6(\log \{\text{Na}^+\}) + 0.41(\%G+C) - (600/N)$, where N is the number of bases in the hybrid, and $\{\text{Na}^+\}$ is the concentration of sodium ions in the hybridization buffer $\{\{\text{Na}^+\}\}$ for $\{\text{IxSSC} = 0.165 \text{ M}\}$.

Additional examples of stringency conditions for polynucleotide hybridization are provided in Sambrook, J., E.F. Fritsch, and T. Maniatis, 1989, *Molecular Cloning: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, chapters 9 and 11, and *Current Protocols in Molecular Biology*, 1995, F.M. Ausubel et al., eds., John Wiley & Sons, Inc., sections 2.10 and 6.3-6.4, incorporated herein by reference.

Preferably, such hybridizing polynucleotides have at least 70% sequence identity (more preferably, at least 80% identity; most preferably at least 90% or 95% identity) with the polynucleotide of the present invention to which they hybridize, where sequence identity is determined by comparing the sequences of the hybridizing polynucleotides when aligned so as to maximize overlap and identity while minimizing sequence gaps. The soluted polynucleotide encoding the protein of the invention may be operably linked to an expression control sequence such as the pMT2 or pED expression vectors disclosed in Kaufman et al., Nucleic Acids Res. 12, 4485-4490 (1991), in order to produce the protein recombinantly. Many suitable expression control sequences are known in the art. General methods of expressing recombinant proteins are also known and are exemplified in R. Kaufman, Methods in Enzymology 185, 537-566 (1990). As defined herein "operably linked" means that the isolated polynucleotide of the invention and an expression control

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sequence are situated within a vector or cell in such a way that the protein is expressed by a host cell which has been transformed (transfected) with the ligated polynucleotide/expression control sequence.

A number of types of cells may act as suitable host cells for expression of the protein. Mammalian host cells include, for example, monkey COS cells, Chinese Hamster Ovary (CHO) cells, human kidney 293 cells, human epidermal A431 cells, human Colo205 cells, 3T3 cells, CV-1 cells, other transformed primate cell lines, normal diploid cells, cell strains derived from in vitro culture of primary tissue, primary explants, HeLa cells, mouse L cells, BHK, HL-60, U937, HaK or Jurkat cells.

Alternatively, it may be possible to produce the protein in lower eukaryotes such as yeast or in prokaryotes such as bacteria. Potentially suitable yeast strains include Saccharomyces cerevisiae, Schizosaccharomyces pombe, Kluyveromyces strains, Candida, or any yeast strain capable of expressing heterologous proteins. Potentially suitable bacterial strains include Escherichia coli, Bacillus subtilis, Salmonella typhimurium, or any bacterial strain capable of expressing heterologous proteins. If the protein is made in yeast or bacteria, it may be necessary to modify the protein produced therein, for example by phosphorylation or glycosylation of the appropriate sites, in order to obtain the functional protein. Such covalent attachments may be accomplished using known chemical or enzymatic methods.

The protein may also be produced by operably linking the isolated polynucleotide of the invention to suitable control sequences in one or more insect expression vectors, and employing an insect expression system. Materials and methods for baculovirus/insect cell expression systems are commercially available in kit form from, e.g., Invitrogen, San Diego, California, U.S.A. (the MaxBac® kit), and such methods are well known in the art, as described in Summers and Smith, Texas Agricultural Experiment Station Bulletin No. 1555 (1987), incorporated herein by reference. As used herein, an insect cell capable of expressing a polynucleotide of the present invention is "transformed."

The protein of the invention may be prepared by culturing transformed host cells under culture conditions suitable to express the recombinant protein. The resulting expressed protein may then be purified from such culture (i.e., from culture medium or cell extracts) using known purification processes, such as gel filtration and ion exchange chromatography. The purification of the protein may also include an affinity column containing agents which will bind to the protein; one or more column steps over such affinity resins as concanavalin A-agarose, heparin-toyopearl® or Cibacrom blue 3GA

Sepharose®; one or more steps involving hydrophobic interaction chromatography using such resins as phenyl ether, butyl ether, or propyl ether; or immunoaffinity chromatography.

Alternatively, the protein of the invention may also be expressed in a form which will facilitate purification. For example, it may be expressed as a fusion protein, such as those of maltose binding protein (MBP), glutathione-S-transferase (GST) or thioredoxin (TRX). Kits for expression and purification of such fusion proteins are commercially available from New England BioLab (Beverly, MA), Pharmacia (Piscataway, NJ) and InVitrogen, respectively. The protein can also be tagged with an epitope and subsequently purified by using a specific antibody directed to such epitope. One such epitope ("Flag") is commercially available from Kodak (New Haven, CT).

Finally, one or more reverse-phase high performance liquid chromatography (RP-HPLC) steps employing hydrophobic RP-HPLC media, e.g., silica gel having pendant methyl or other aliphatic groups, can be employed to further purify the protein. Some or all of the foregoing purification steps, in various combinations, can also be employed to provide a substantially homogeneous isolated recombinant protein. The protein thus purified is substantially free of other mammalian proteins and is defined in accordance with the present invention as an "isolated protein."

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The protein of the invention may also be expressed as a product of transgenic animals, e.g., as a component of the milk of transgenic cows, goats, pigs, or sheep which are characterized by somatic or germ cells containing a nucleotide sequence encoding the protein.

The protein may also be produced by known conventional chemical synthesis. Methods for constructing the proteins of the present invention by synthetic means are known to those skilled in the art. The synthetically-constructed protein sequences, by virtue of sharing primary, secondary or tertiary structural and/or conformational characteristics with proteins may possess biological properties in common therewith, including protein activity. Thus, they may be employed as biologically active or immunological substitutes for natural, purified proteins in screening of therapeutic compounds and in immunological processes for the development of antibodies.

The proteins provided herein also include proteins characterized by amino acid sequences similar to those of purified proteins but into which modification are naturally provided or deliberately engineered. For example, modifications in the peptide or DNA sequences can be made by those skilled in the art using known techniques. Modifications

of interest in the protein sequences may include the alteration, substitution, replacement, insertion or deletion of a selected amino acid residue in the coding sequence. For example, one or more of the cysteine residues may be deleted or replaced with another amino acid to alter the conformation of the molecule. Techniques for such alteration, substitution, replacement, insertion or deletion are well known to those skilled in the art (see, e.g., U.S. Patent No. 4,518,584). Preferably, such alteration, substitution, replacement, insertion or deletion retains the desired activity of the protein.

Other fragments and derivatives of the sequences of proteins which would be expected to retain protein activity in whole or in part and may thus be useful for screening or other immunological methodologies may also be easily made by those skilled in the art given the disclosures herein. Such modifications are believed to be encompassed by the present invention.

USES AND BIOLOGICAL ACTIVITY

The polynucleotides and proteins of the present invention are expected to exhibit one or more of the uses or biological activities (including those associated with assays cited herein) identified below. Uses or activities described for proteins of the present invention may be provided by administration or use of such proteins or by administration or use of polynucleotides encoding such proteins (such as, for example, in gene therapies or vectors suitable for introduction of DNA).

Research Uses and Utilities

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The polynucleotides provided by the present invention can be used by the research community for various purposes. The primary use of polynucleotides of the invention which are sESTs is as porbes for the identification and isolation of full-length cDNAs and genomic DNA molecules which correspond (i.e., is a longer polynucleotide sequence of which substantially the entire sEST is a fragment in the case of a full-length cDNA, or which encodes the sEST in the case of a genomic DNA molecule) to such sESTs. Techniques for use of such sequences as probes for larger cDNAs or genomic molecules are well known in the art.

The polynucleotides can also be used to express recombinant protein for analysis, characterization or therapeutic use; as markers for tissues in which the corresponding protein is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in disease states); as molecular weight markers on Southern gels; as chromosome markers or tags (when labeled) to identify chromosomes or to map related gene positions; to compare with endogenous DNA sequences in patients to identify potential genetic disorders; as probes to hybridize and thus discover novel, related DNA sequences; as a source of information to derive PCR primers for genetic fingerprinting; as a probe to "subtract-out" known sequences in the process of discovering other novel polynucleotides; for selecting and making oligomers for attachment to a "gene chip" or other support, including for examination of expression patterns; to raise antiprotein antibodies using DNA immunization techniques; and as an antigen to raise anti-DNA antibodies or elicit another immune response. Where the polynucleotide encodes a protein which binds or potentially binds to another protein (such as, for example, in a receptor-ligand interaction), the polynucleotide can also be used in interaction trap assays (such as, for example, that described in Gyuris et al., Cell 75:791-803 (1993)) to identify

polynucleotides encoding the other protein with which binding occurs or to identify inhibitors of the binding interaction.

The proteins provided by the present invention can similarly be used in assay to determine biological activity, including in a panel of multiple proteins for high-throughput screening; to raise antibodies or to elicit another immune response; as a reagent (including the labeled reagent) in assays designed to quantitatively determine levels of the protein (or its receptor) in biological fluids; as markers for tissues in which the corresponding protein is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in a disease state); and, of course, to isolate correlative receptors or ligand. Where the protein binds or potentially binds to another protein (such as, for example, in a receptor-ligand interaction), the protein can be used to identify the other protein with which binding occurs or to identify inhibitors of the binding interaction. Proteins involved in these binding interactions can also be used to screen for peptide or small molecule inhibitors or agonists of the binding interaction.

Any or all of these research utilities are capable of being developed into reagent grade or kit format for commercialization as research products.

Methods for performing the uses listed above are well known to those skilled in the art. References disclosing such methods include without limitation "Molecular Cloning: A Laboratory Manual", 2d ed., Cold Spring Harbor Laboratory Press, Sambrook, J., E.F. Fritsch and T. Maniatis eds., 1989, and "Methods in Enzymology: Guide to Molecular Cloning Techniques", Academic Press, Berger, S.L. and A.R. Kimmel eds., 1987.

Nutritional Uses

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Polynucleotides and proteins of the present invention can also be used as nutritional sources or supplements. Such uses include without limitation use as a protein or amino acid supplement, use as a carbon source, use as a nitrogen source and use as a source of carbohydrate. In such cases the protein or polynucleotide of the invention can be added to the feed of a particular organism or can be administered as a separate solid or liquid preparation, such as in the form of powder, pills, solutions, suspensions or capsules. In the case of microorganisms, the protein or polynucleotide of the invention can be added to the medium in or on which the microorganism is cultured.

Cytokine and Cell Proliferation/Differentiation Activity

A protein of the present invention may exhibit cytokine, cell proliferation (either inducing or inhibiting) or cell differentiation (either inducing or inhibiting) activity or may induce production of other cytokines in certain cell populations. Many protein factors discovered to date, including all known cytokines, have exhibited activity in one or more factor dependent cell proliferation assays, and hence the assays serve as a convenient confirmation of cytokine activity. The activity of a protein of the present invention is evidenced by any one of a number of routine factor dependent cell proliferation assays for cell lines including, without limitation, 32D, DA2, DA1G, T10, B9, B9/11, BaF3, MC9/G, M+ (preB M+), 2E8, RB5, DA1, 123, T1165, HT2, CTLL2, TF-1, Mo7e and CMK.

The activity of a protein of the invention may, among other means, be measured by the following methods:

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Assays for T-cell or thymocyte proliferation include without limitation those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, Immunologic studies in Humans); Takai et al., J. Immunol. 137:3494-3500, 1986; Bertagnolli et al., J. Immunol. 145:1706-1712, 1990; Bertagnolli et al., Cellular Immunology 133:327-341, 1991; Bertagnolli, et al., J. Immunol. 149:3778-3783, 1992; Bowman et al., J. Immunol. 152: 1756-1761, 1994.

Assays for cytokine production and/or proliferation of spleen cells, lymph node cells or thymocytes include, without limitation, those described in: Polyclonal T cell stimulation, Kruisbeek, A.M. and Shevach, E.M. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.12.1-3.12.14, John Wiley and Sons, Toronto. 1994; and Measurement of mouse and human Interferon γ, Schreiber, R.D. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.8.1-6.8.8, John Wiley and Sons, Toronto. 1994.

Assays for proliferation and differentiation of hematopoietic and lymphopoietic cells include, without limitation, those described in: Measurement of Human and Murine Interleukin 2 and Interleukin 4, Bottomly, K., Davis, L.S. and Lipsky, P.E. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.3.1-6.3.12, John Wiley and Sons, Toronto. 1991; deVries et al., J. Exp. Med. 173:1205-1211, 1991; Moreau et al., Nature 336:690-692, 1988; Greenberger et al., Proc. Natl. Acad. Sci. U.S.A. 80:2931-2938, 1983; Measurement of mouse and human interleukin 6 - Nordan, R. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.6.1-6.6.5, John Wiley

and Sons, Toronto. 1991; Smith et al., Proc. Natl. Acad. Sci. U.S.A. 83:1857-1861, 1986; Measurement of human Interleukin 11 - Bennett, F., Giannotti, J., Clark, S.C. and Turner, K. J. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.15.1 John Wiley and Sons, Toronto. 1991; Measurement of mouse and human Interleukin 9 - Ciarletta, A., Giannotti, J., Clark, S.C. and Turner, K.J. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.13.1, John Wiley and Sons, Toronto, 1991.

Assays for T-cell clone responses to antigens (which will identify, among others, proteins that affect APC-T cell interactions as well as direct T-cell effects by measuring proliferation and cytokine production) include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function; Chapter 6, Cytokines and their cellular receptors; Chapter 7, Immunologic studies in Humans); Weinberger et al., Proc. Natl. Acad. Sci. USA 77:6091-6095, 1980; Weinberger et al., Eur. J. Immunol. 11:405-411, 1981; Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988.

Immune Stimulating or Suppressing Activity

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A protein of the present invention may also exhibit immune stimulating or immune suppressing activity, including without limitation the activities for which assays are described herein. A protein may be useful in the treatment of various immune deficiencies and disorders (including severe combined immunodeficiency (SCID)), e.g., in regulating (up or down) growth and proliferation of T and/or B lymphocytes, as well as effecting the cytolytic activity of NK cells and other cell populations. These immune deficiencies may be genetic or be caused by viral (e.g., HIV) as well as bacterial or fungal infections, or may result from autoimmune disorders. More specifically, infectious diseases causes by viral, bacterial, fungal or other infection may be treatable using a protein of the present invention, including infections by HIV, hepatitis viruses, herpesviruses, mycobacteria, Leishmania spp., malaria spp. and various fungal infections such as candidiasis. Of course, in this regard, a protein of the present invention may also be useful where a boost to the immune system generally may be desirable, *i.e.*, in the treatment of cancer.

Autoimmune disorders which may be treated using a protein of the present invention include, for example, connective tissue disease, multiple sclerosis, systemic lupus erythematosus, rheumatoid arthritis, autoimmune pulmonary inflammation, Guillain-Barre

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syndrome, autoimmune thyroiditis, insulin dependent diabetes mellitis, myasthenia gravis, graft-versus-host disease and autoimmune inflammatory eye disease. Such a protein of the present invention may also to be useful in the treatment of allergic reactions and conditions, such as asthma (particularly allergic asthma) or other respiratory problems. Other conditions, in which immune suppression is desired (including, for example, organ transplantation), may also be treatable using a protein of the present invention.

Using the proteins of the invention it may also be possible to immune responses, in a number of ways. Down regulation may be in the form of inhibiting or blocking an immune response already in progress or may involve preventing the induction of an immune response. The functions of activated T cells may be inhibited by suppressing T cell responses or by inducing specific tolerance in T cells, or both. Immunosuppression of T cell responses is generally an active, non-antigen-specific, process which requires continuous exposure of the T cells to the suppressive agent. Tolerance, which involves inducing non-responsiveness or anergy in T cells, is distinguishable from immunosuppression in that it is generally antigen-specific and persists after exposure to the tolerizing agent has ceased. Operationally, tolerance can be demonstrated by the lack of a T cell response upon reexposure to specific antigen in the absence of the tolerizing agent.

Down regulating or preventing one or more antigen functions (including without limitation B lymphocyte antigen functions (such as, for example, B7)), e.g., preventing high level lymphokine synthesis by activated T cells, will be useful in situations of tissue, skin and organ transplantation and in graft-versus-host disease (GVHD). For example, blockage of T cell function should result in reduced tissue destruction in tissue transplantation. Typically, in tissue transplants, rejection of the transplant is initiated through its recognition as foreign by T cells, followed by an immune reaction that destroys the transplant. The administration of a molecule which inhibits or blocks interaction of a B7 lymphocyte antigen with its natural ligand(s) on immune cells (such as a soluble, monomeric form of a peptide having B7-2 activity alone or in conjunction with a monomeric form of a peptide having an activity of another B lymphocyte antigen (e.g., B7-1, B7-3) or blocking antibody), prior to transplantation can lead to the binding of the molecule to the natural ligand(s) on the immune cells without transmitting the corresponding costimulatory signal. Blocking B lymphocyte antigen function in this matter prevents cytokine synthesis by immune cells, such as T cells, and thus acts as an immunosuppressant Moreover, the lack of costimulation may also be sufficient to anergize the T cells, thereby inducing tolerance in a subject. Induction of long-term tolerance by B lymphocyte antigen-

blocking reagents may avoid the necessity of repeated administration of these blocking reagents. To achieve sufficient immunosuppression or tolerance in a subject, it may also be necessary to block the function of a combination of B lymphocyte antigens.

The efficacy of particular blocking reagents in preventing organ transplant rejection or GVHD can be assessed using animal models that are predictive of efficacy in humans. Examples of appropriate systems which can be used include allogeneic cardiac grafts in rats and xenogeneic pancreatic islet cell grafts in mice, both of which have been used to examine the immunosuppressive effects of CTLA4Ig fusion proteins *in vivo* as described in Lenschow *et al.*, Science 257:789-792 (1992) and Turka *et al.*, Proc. Natl. Acad. Sci USA, 89:11102-11105 (1992). In addition, murine models of GVHD (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 846-847) can be used to determine the effect of blocking B lymphocyte antigen function *in vivo* on the development of that disease.

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Blocking antigen function may also be therapeutically useful for treating autoimmune diseases. Many autoimmune disorders are the result of inappropriate activation of T cells that are reactive against self tissue and which promote the production of cytokines and autoantibodies involved in the pathology of the diseases. Preventing the activation of autoreactive T cells may reduce or eliminate disease symptoms. Administration of reagents which block costimulation of T cells by disrupting receptor: ligand interactions of B lymphocyte antigens can be used to inhibit T cell activation and prevent production of autoantibodies or T cell-derived cytokines which may be involved in the disease process. Additionally, blocking reagents may induce antigen-specific tolerance of autoreactive T cells which could lead to long-term relief from the disease. The efficacy of blocking reagents in preventing or alleviating autoimmune disorders can be determined using a number of well-characterized animal models of human autoimmune diseases. Examples include murine experimental autoimmune encephalitis, systemic lupus erythmatosis in MRL/lpr/lpr mice or NZB hybrid mice, murine autoimmune collagen arthritis, diabetes mellitus in NOD mice and BB rats, and murine experimental myasthenia gravis (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 840-856).

Upregulation of an antigen function (preferably a B lymphocyte antigen function), as a means of up regulating immune responses, may also be useful in therapy. Upregulation of immune responses may be in the form of enhancing an existing immune response or eliciting an initial immune response. For example, enhancing an immune response through stimulating B lymphocyte antigen function may be useful in cases of viral

infection. In addition, systemic viral diseases such as influenza, the common cold, and encephalitis might be alleviated by the administration of stimulatory forms of B lymphocyte antigens systemically.

Alternatively, anti-viral immune responses may be enhanced in an infected patient by removing T cells from the patient, costimulating the T cells *in vitro* with viral antigenpulsed APCs either expressing a peptide of the present invention or together with a stimulatory form of a soluble peptide of the present invention and reintroducing the *in vitro* activated T cells into the patient. Another method of enhancing anti-viral immune responses would be to isolate infected cells from a patient, transfect them with a nucleic acid encoding a protein of the present invention as described herein such that the cells express all or a portion of the protein on their surface, and reintroduce the transfected cells into the patient. The infected cells would now be capable of delivering a costimulatory signal to, and thereby activate, T cells *in vivo*.

In another application, up regulation or enhancement of antigen function (preferably B lymphocyte antigen function) may be useful in the induction of tumor immunity. Tumor cells (e.g., sarcoma, melanoma, lymphoma, leukemia, neuroblastoma, carcinoma) transfected with a nucleic acid encoding at least one peptide of the present invention can be administered to a subject to overcome tumor-specific tolerance in the subject. If desired, the tumor cell can be transfected to express a combination of peptides. For example, tumor cells obtained from a patient can be transfected ex vivo with an expression vector directing the expression of a peptide having B7-2-like activity alone, or in conjunction with a peptide having B7-1-like activity and/or B7-3-like activity. The transfected tumor cells are returned to the patient to result in expression of the peptides on the surface of the transfected cell. Alternatively, gene therapy techniques can be used to target a tumor cell for transfection in vivo.

The presence of the peptide of the present invention having the activity of a B lymphocyte antigen(s) on the surface of the tumor cell provides the necessary costimulation signal to T cells to induce a T cell mediated immune response against the transfected tumor cells. In addition, tumor cells which lack MHC class I or MHC class II molecules, or which fail to reexpress sufficient amounts of MHC class I or MHC class II molecules, can be transfected with nucleic acid encoding all or a portion of (e.g., a cytoplasmic-domain truncated portion) of an MHC class I α chain protein and β_2 microglobulin protein or an MHC class II α chain protein and an MHC class II β chain protein to thereby express MHC class I or MHC class II proteins on the cell surface. Expression of the appropriate class I

or class II MHC in conjunction with a peptide having the activity of a B lymphocyte antigen (e.g., B7-1, B7-2, B7-3) induces a T cell mediated immune response against the transfected tumor cell. Optionally, a gene encoding an antisense construct which blocks expression of an MHC class II associated protein, such as the invariant chain, can also be cotransfected with a DNA encoding a peptide having the activity of a B lymphocyte antigen to promote presentation of tumor associated antigens and induce tumor specific immunity. Thus, the induction of a T cell mediated immune response in a human subject may be sufficient to overcome tumor-specific tolerance in the subject.

The activity of a protein of the invention may, among other means, be measured by the following methods:

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Suitable assays for thymocyte or splenocyte cytotoxicity include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, Immunologic studies in Humans); Herrmann et al., Proc. Natl. Acad. Sci. USA 78:2488-2492, 1981; Herrmann et al., J. Immunol. 128:1968-1974, 1982; Handa et al., J. Immunol. 135:1564-1572, 1985; Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988; Herrmann et al., Proc. Natl. Acad. Sci. USA 78:2488-2492, 1981; Herrmann et al., J. Immunol. 128:1968-1974, 1982; Handa et al., J. Immunol. 135:1564-1572, 1985; Takai et al., J. Immunol. 137:3494-3500, 1986; Bowmanet al., J. Virology 61:1992-1998; Takai et al., J. Immunol. 140:508-512, 1988; Bertagnolli et al., Cellular Immunology 133:327-341, 1991; Brown et al., J. Immunol. 153:3079-3092, 1994.

Assays for T-cell-dependent immunoglobulin responses and isotype switching (which will identify, among others, proteins that modulate T-cell dependent antibody responses and that affect Th1/Th2 profiles) include, without limitation, those described in: Maliszewski, J. Immunol. 144:3028-3033, 1990; and Assays for B cell function: *In vitro* antibody production, Mond, J.J. and Brunswick, M. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.8.1-3.8.16, John Wiley and Sons, Toronto. 1994.

Mixed lymphocyte reaction (MLR) assays (which will identify, among others, proteins that generate predominantly Th1 and CTL responses) include, without limitation, those described in: Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-

3.19; Chapter 7, Immunologic studies in Humans); Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988; Bertagnolli et al., J. Immunol. 149:3778-3783, 1992.

Dendritic cell-dependent assays (which will identify, among others, proteins expressed by dendritic cells that activate naive T-cells) include, without limitation, those described in: Guery et al., J. Immunol. 134:536-544, 1995; Inaba et al., Journal of Experimental Medicine 173:549-559, 1991; Macatonia et al., Journal of Immunology 154:5071-5079, 1995; Porgador et al., Journal of Experimental Medicine 182:255-260, 1995; Nair et al., Journal of Virology 67:4062-4069, 1993; Huang et al., Science 264:961-965, 1994; Macatonia et al., Journal of Experimental Medicine 169:1255-1264, 1989; Bhardwaj et al., Journal of Clinical Investigation 94:797-807, 1994; and Inaba et al., Journal of Experimental Medicine 172:631-640, 1990.

Assays for lymphocyte survival/apoptosis (which will identify, among others, proteins that prevent apoptosis after superantigen induction and proteins that regulate lymphocyte homeostasis) include, without limitation, those described in: Darzynkiewicz et al., Cytometry 13:795-808, 1992; Gorczyca et al., Leukemia 7:659-670, 1993; Gorczyca et al., Cancer Research 53:1945-1951, 1993; Itoh et al., Cell 66:233-243, 1991; Zacharchuk, Journal of Immunology 145:4037-4045, 1990; Zamai et al., Cytometry 14:891-897, 1993; Gorczyca et al., International Journal of Oncology 1:639-648, 1992.

Assays for proteins that influence early steps of T-cell commitment and development include, without limitation, those described in: Antica et al., Blood 84:111-117, 1994; Fine et al., Cellular Immunology 155:111-122, 1994; Galy et al., Blood 85:2770-2778, 1995; Toki et al., Proc. Nat. Acad Sci. USA 88:7548-7551, 1991.

25 <u>Hematopoiesis Regulating Activity</u>

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A protein of the present invention may be useful in regulation of hematopoiesis and, consequently, in the treatment of myeloid or lymphoid cell deficiencies. Even marginal biological activity in support of colony forming cells or of factor-dependent cell lines indicates involvement in regulating hematopoiesis, e.g. in supporting the growth and proliferation of erythroid progenitor cells alone or in combination with other cytokines, thereby indicating utility, for example, in treating various anemias or for use in conjunction with irradiation/chemotherapy to stimulate the production of erythroid precursors and/or erythroid cells; in supporting the growth and proliferation of myeloid cells such as granulocytes and monocytes/macrophages (i.e., traditional CSF activity) useful, for

example, in conjunction with chemotherapy to prevent or treat consequent myelo-suppression; in supporting the growth and proliferation of megakaryocytes and consequently of platelets thereby allowing prevention or treatment of various platelet disorders such as thrombocytopenia, and generally for use in place of or complimentary to platelet transfusions; and/or in supporting the growth and proliferation of hematopoietic stem cells which are capable of maturing to any and all of the above-mentioned hematopoietic cells and therefore find therapeutic utility in various stem cell disorders (such as those usually treated with transplantation, including, without limitation, aplastic anemia and paroxysmal nocturnal hemoglobinuria), as well as in repopulating the stem cell compartment post irradiation/chemotherapy, either *in-vivo* or *ex-vivo* (i.e., in conjunction with bone marrow transplantation or with peripheral progenitor cell transplantation (homologous or heterologous)) as normal cells or genetically manipulated for gene therapy.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for proliferation and differentiation of various hematopoietic lines are cited above.

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Assays for embryonic stem cell differentiation (which will identify, among others, proteins that influence embryonic differentiation hematopoiesis) include, without limitation, those described in: Johansson et al. Cellular Biology 15:141-151, 1995; Keller et al., Molecular and Cellular Biology 13:473-486, 1993; McClanahan et al., Blood 81:2903-2915, 1993.

Assays for stem cell survival and differentiation (which will identify, among others, proteins that regulate lympho-hematopoiesis) include, without limitation, those described in: Methylcellulose colony forming assays, Freshney, M.G. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 265-268, Wiley-Liss, Inc., New York, NY. 1994; Hirayama et al., Proc. Natl. Acad. Sci. USA 89:5907-5911, 1992; Primitive hematopoietic colony forming cells with high proliferative potential, McNiece, I.K. and Briddell, R.A. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 23-39, Wiley-Liss, Inc., New York, NY. 1994; Neben et al., Experimental Hematology 22:353-359, 1994; Cobblestone area forming cell assay, Ploemacher, R.E. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 1-21, Wiley-Liss, Inc., New York, NY. 1994; Long term bone marrow cultures in the presence of stromal cells, Spooncer, E., Dexter, M. and Allen, T. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 163-179, Wiley-Liss, Inc., New York, NY. 1994; Long term culture initiating cell assay, Sutherland,

H.J. In Culture of Hematopoietic Cells. R.I. Freshney, et al. eds. Vol pp. 139-162, Wiley-Liss, Inc., New York, NY. 1994.

Tissue Growth Activity

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A protein of the present invention also may have utility in compositions used for bone, cartilage, tendon, ligament and/or nerve tissue growth or regeneration, as well as for wound healing and tissue repair and replacement, and in the treatment of burns, incisions and pieces

A protein of the present invention, which induces cartilage and/or bone growth in circumstances where bone is not normally formed, has application in the healing of bone fractures and cartilage damage or defects in humans and other animals. Such a preparation employing a protein of the invention may have prophylactic use in closed as well as open fracture reduction and also in the improved fixation of artificial joints. *De novo* bone formation induced by an osteogenic agent contributes to the repair of congenital, trauma induced, or oncologic resection induced craniofacial defects, and also is useful in cosmetic plastic surgery.

A protein of this invention may also be used in the treatment of periodontal disease, and in other tooth repair processes. Such agents may provide an environment to attract bone-forming cells, stimulate growth of bone-forming cells or induce differentiation of progenitors of bone-forming cells. A protein of the invention may also be useful in the treatment of osteoporosis or osteoarthritis, such as through stimulation of bone and/or cartilage repair or by blocking inflammation or processes of tissue destruction (collagenase activity, osteoclast activity, etc.) mediated by inflammatory processes.

Another category of tissue regeneration activity that may be attributable to the protein of the present invention is tendon/ligament formation. A protein of the present invention, which induces tendon/ligament-like tissue or other tissue formation in circumstances where such tissue is not normally formed, has application in the healing of tendon or ligament tears, deformities and other tendon or ligament defects in humans and other animals. Such a preparation employing a tendon/ligament-liketissue inducing protein may have prophylactic use in preventing damage to tendon or ligament tissue, as well as use in the improved fixation of tendon or ligament to bone or other tissues, and in repairing defects to tendon or ligament tissue. De novo tendon/ligament-liketissue formation induced by a composition of the present invention contributes to the repair of congenital, trauma induced, or other tendon or ligament defects of other origin, and is also useful in cosmetic

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plastic surgery for attachment or repair of tendons or ligaments. The compositions of the present invention may provide an environment to attract tendon- or ligament-forming cells, stimulate growth of tendon- or ligament-forming cells, induce differentiation of progenitors of tendon- or ligament-forming cells, or induce growth of tendon/ligament cells or progenitors ex vivo for return in vivo to effect tissue repair. The compositions of the invention may also be useful in the treatment of tendinitis, carpal tunnel syndrome and other tendon or ligament defects. The compositions may also include an appropriate matrix and/or sequestering agent as a carrier as is well known in the art.

The protein of the present invention may also be useful for proliferation of neural cells and for regeneration of nerve and brain tissue, *i.e.* for the treatment of central and peripheral nervous system diseases and neuropathies, as well as mechanical and traumatic disorders, which involve degeneration, death or trauma to neural cells or nerve tissue. More specifically, a protein may be used in the treatment of diseases of the peripheral nervous system, such as peripheral nerve injuries, peripheral neuropathy and localized neuropathies, and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager syndrome. Further conditions which may be treated in accordance with the present invention include mechanical and traumatic disorders, such as spinal cord disorders, head trauma and cerebrovascular diseases such as stroke. Peripheral neuropathies resulting from chemotherapy or other medical therapies may also be treatable using a protein of the invention.

Proteins of the invention may also be useful to promote better or faster closure of non-healing wounds, including without limitation pressure ulcers, ulcers associated with vascular insufficiency, surgical and traumatic wounds, and the like.

It is expected that a protein of the present invention may also exhibit activity for generation or regeneration of other tissues, such as organs (including, for example, pancreas, liver, intestine, kidney, skin, endothelium), muscle (smooth, skeletal or cardiac) and vascular (including vascular endothelium) tissue, or for promoting the growth of cells comprising such tissues. Part of the desired effects may be by inhibition or modulation of fibrotic scarring to allow normal tissue to regenerate. A protein of the invention may also exhibit angiogenic activity.

A protein of the present invention may also be useful for gut protection or regeneration and treatment of lung or liver fibrosis, reperfusion injury in various tissues, and conditions resulting from systemic cytokine damage.

A protein of the present invention may also be useful for promoting or inhibiting differentiation of tissues described above from precursor tissues or cells; or for inhibiting the growth of tissues described above.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for tissue generation activity include, without limitation, those described in: International Patent Publication No. WO95/16035 (bone, cartilage, tendon); International Patent Publication No. WO95/05846 (nerve, neuronal); International Patent Publication No. WO91/07491 (skin, endothelium).

Assays for wound healing activity include, without limitation, those described in: Winter, <u>Epidermal Wound Healing</u>, pps. 71-112 (Maibach, HI and Rovee, DT, eds.), Year Book Medical Publishers, Inc., Chicago, as modified by Eaglstein and Mertz, J. Invest. Dermatol 71:382-84 (1978).

Activin/Inhibin Activity

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A protein of the present invention may also exhibit activin- or inhibin-related activities. Inhibins are characterized by their ability to inhibit the release of follicle stimulating hormone (FSH), while activins and are characterized by their ability to stimulate the release of follicle stimulating hormone (FSH). Thus, a protein of the present invention, alone or in heterodimers with a member of the inhibin α family, may be useful as a contraceptive based on the ability of inhibins to decrease fertility in female mammals and decrease spermatogenesis in male mammals. Administration of sufficient amounts of other inhibins can induce infertility in these mammals. Alternatively, the protein of the invention, as a homodimer or as a heterodimer with other protein subunits of the inhibin- β group, may be useful as a fertility inducing therapeutic, based upon the ability of activin molecules in stimulating FSH release from cells of the anterior pituitary. See, for example, United States Patent 4,798,885. A protein of the invention may also be useful for advancement of the onset of fertility in sexually immature mammals, so as to increase the lifetime reproductive performance of domestic animals such as cows, sheep and pigs.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for activin/inhibin activity include, without limitation, those described in: Vale et al., Endocrinology 91:562-572, 1972; Ling et al., Nature 321:779-782, 1986; Vale

et al., Nature 321:776-779, 1986; Mason et al., Nature 318:659-663, 1985; Forage et al., Proc. Natl. Acad. Sci. USA 83:3091-3095, 1986.

Chemotactic/Chemokinetic Activity

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A protein of the present invention may have chemotactic or chemokinetic activity (e.g., act as a chemokine) for mammalian cells, including, for example, monocytes, fibroblasts, neutrophils, T-cells, mast cells, eosinophils, epithelial and/or endothelial cells. Chemotactic and chemokinetic proteins can be used to mobilize or attract a desired cell population to a desired site of action. Chemotactic or chemokinetic proteins provide particular advantages in treatment of wounds and other trauma to tissues, as well as in treatment of localized infections. For example, attraction of lymphocytes, monocytes or neutrophils to tumors or sites of infection may result in improved immune responses against the tumor or infecting agent.

A protein or peptide has chemotactic activity for a particular cell population if it can stimulate, directly or indirectly, the directed orientation or movement of such cell population. Preferably, the protein or peptide has the ability to directly stimulate directed movement of cells. Whether a particular protein has chemotactic activity for a population of cells can be readily determined by employing such protein or peptide in any known assay for cell chemotaxis.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for chemotactic activity (which will identify proteins that induce or prevent chemotaxis) consist of assays that measure the ability of a protein to induce the migration of cells across a membrane as well as the ability of a protein to induce the adhesion of one cell population to another cell population. Suitable assays for movement and adhesion include, without limitation, those described in: Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W.Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 6.12, Measurement of alpha and beta Chemokines 6.12.1-6.12.28; Taub et al. J. Clin. Invest. 95:1370-1376, 1995; Lind et al. APMIS 103:140-146, 1995; Muller et al Eur. J. Immunol. 25: 1744-1748; Gruber et al. J. of Immunol. 152:5860-5867, 1994; Johnston et al. J. of Immunol. 153: 1762-1768, 1994.

Hemostatic and Thrombolytic Activity

A protein of the invention may also exhibit hemostatic or thrombolytic activity. As a result, such a protein is expected to be useful in treatment of various coagulation disorders (including hereditary disorders, such as hemophilias) or to enhance coagulation and other hemostatic events in treating wounds resulting from trauma, surgery or other causes. A protein of the invention may also be useful for dissolving or inhibiting formation of thromboses and for treatment and prevention of conditions resulting therefrom (such as, for example, infarction of cardiac and central nervous system vessels (e.g., stroke).

The activity of a protein of the invention may, among other means, be measured by the following methods:

Assay for hemostatic and thrombolytic activity include, without limitation, those described in: Linet et al., J. Clin. Pharmacol. 26:131-140, 1986; Burdick et al., Thrombosis Res. 45:413-419, 1987; Humphrey et al., Fibrinolysis 5:71-79 (1991); Schaub, Prostaglandins 35:467-474, 1988.

15 Receptor/Ligand Activity

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A protein of the present invention may also demonstrate activity as receptors, receptor ligands or inhibitors or agonists of receptor/ligand interactions. Examples of such receptors and ligands include, without limitation, cytokine receptors and their ligands, receptor kinases and their ligands, receptor phosphatases and their ligands, receptors involved in cell-cell interactions and their ligands (including without limitation, cellular adhesion molecules (such as selectins, integrins and their ligands) and receptor/ligand pairs involved in antigen presentation, antigen recognition and development of cellular and humoral immune responses). Receptors and ligands are also useful for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction. A protein of the present invention (including, without limitation, fragments of receptors and ligands) may themselves be useful as inhibitors of receptor/ligand interactions.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for receptor-ligand activity include without limitation those described in: Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W.Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 7.28, Measurement of Cellular Adhesion under static conditions 7.28.1-7.28.22), Takai et al., Proc. Natl. Acad. Sci. USA 84:6864-6868, 1987; Bierer et al., J. Exp. Med. 168:1145-1156, 1988; Rosenstein et al., J. Exp. Med.

169:149-160 1989; Stoltenborg et al., J. Immunol. Methods 175:59-68, 1994; Stitt et al., Cell 80:661-670, 1995.

Anti-Inflammatory Activity

Proteins of the present invention may also exhibit anti-inflammatory activity. The anti-inflammatory activity may be achieved by providing a stimulus to cells involved in the inflammatory response, by inhibiting or promoting cell-cell interactions (such as, for example, cell adhesion), by inhibiting or promoting chemotaxis of cells involved in the inflammatory process, inhibiting or promoting cell extravasation, or by stimulating or suppressing production of other factors which more directly inhibit or promote an inflammatory response. Proteins exhibiting such activities can be used to treat inflammatory conditions including chronic or acute conditions), including without limitation inflammation associated with infection (such as septic shock, sepsis or systemic inflammatory response syndrome (SIRS)), ischemia-reperfusioninjury, endotoxin lethality, arthritis, complement-mediated hyperacute rejection, nephritis, cytokine or chemokine-induced lung injury, inflammatory bowel disease, Crohn's disease or resulting from over production of cytokines such as TNF or IL-1. Proteins of the invention may also be useful to treat anaphylaxis and hypersensitivity to an antigenic substance or material.

20 <u>Tumor Inhibition Activity</u>

In addition to the activities described above for immunological treatment or prevention of tumors, a protein of the invention may exhibit other anti-tumor activities. A protein may inhibit tumor growth directly or indirectly (such as, for example, via ADCC). A protein may exhibit its tumor inhibitory activity by acting on tumor tissue or tumor precursor tissue, by inhibiting formation of tissues necessary to support tumor growth (such as, for example, by inhibiting angiogenesis), by causing production of other factors, agents or cell types which inhibit tumor growth, or by suppressing, eliminating or inhibiting factors, agents or cell types which promote tumor growth.

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Other Activities

A protein of the invention may also exhibit one or more of the following additional activities or effects: inhibiting the growth, infection or function of, or killing, infectious agents, including, without limitation, bacteria, viruses, fungi and other parasites; effecting

(suppressing or enhancing) bodily characteristics, including, without limitation, height, weight, hair color, eye color, skin, fat to lean ratio or other tissue pigmentation, or organ or body part size or shape (such as, for example, breast augmentation or diminution, change in bone form or shape); effecting biorhythms or caricadic cycles or rhythms; effecting the fertility of male or female subjects; effecting the metabolism, catabolism, anabolism, processing, utilization, storage or elimination of dietary fat, lipid, protein, carbohydrate, vitamins, minerals, cofactors or other nutritional factors or component(s); effecting behavioral characteristics, including, without limitation, appetite, libido, stress, cognition (including cognitive disorders), depression (including depressive disorders) and violent behaviors; providing analgesic effects or other pain reducing effects; promoting differentiation and growth of embryonic stem cells in lineages other than hematopoietic lineages; hormonal or endocrine activity; in the case of enzymes, correcting deficiencies of the enzyme and treating deficiency-related diseases; treatment of hyperproliferative disorders (such as, for example, psoriasis); immunoglobulin-like activity (such as, for example, the ability to bind antigens or complement); and the ability to act as an antigen in a vaccine composition to raise an immune response against such protein or another material or entity which is cross-reactive with such protein.

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ADMINISTRATION AND DOSING

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A protein of the present invention (from whatever source derived, including without limitation from recombinant and non-recombinant sources) may be used in a pharmaceutical composition when combined with a pharmaceutically acceptable carrier. composition may also contain (in addition to protein and a carrier) diluents, fillers, salts, buffers, stabilizers, solubilizers, and other materials well known in the art. The term "pharmaceutically acceptable" means a non-toxic material that does not interfere with the effectiveness of the biological activity of the active ingredient(s). The characteristics of the carrier will depend on the route of administration. The pharmaceutical composition of the invention may also contain cytokines, lymphokines, or other hematopoietic factors such as M-CSF, GM-CSF, TNF, IL-1, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12, IL-13, IL-14, IL-15, IFN, TNF0, TNF1, TNF2, G-CSF, Meg-CSF, thrombopoietin stem cell factor, and erythropoietin. The pharmaceutical composition may further contain other agents which either enhance the activity of the protein or compliment its activity or use in treatment. Such additional factors and/or agents may be included in the pharmaceutical composition to produce a synergistic effect with protein of the invention, or to minimize side effects. Conversely, protein of the present invention may be included in formulations of the particular cytokine, lymphokine, other hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent to minimize side effects of the cytokine, lymphokine, other hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent.

A protein of the present invention may be active in multimers (e.g., heterodimers or homodimers) or complexes with itself or other proteins. As a result, pharmaceutical compositions of the invention may comprise a protein of the invention in such multimeric or complexed form.

The pharmaceutical composition of the invention may be in the form of a complex of the protein(s) of present invention along with protein or peptide antigens. The protein and/or peptide antigen will deliver a stimulatory signal to both B and T lymphocytes. B lymphocytes will respond to antigen through their surface immunoglobulin receptor. T lymphocytes will respond to antigen through the T cell receptor (TCR) following presentation of the antigen by MHC proteins. MHC and structurally related proteins including those encoded by class I and class II MHC genes on host cells will serve to present the peptide antigen(s) to T lymphocytes. The antigen components could also be supplied as purified MHC-peptide complexes alone or with co-stimulatory molecules that

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can directly signal T cells. Alternatively antibodies able to bind surface immunolgobulin and other molecules on B cells as well as antibodies able to bind the TCR and other molecules on T cells can be combined with the pharmaceutical composition of the invention.

The pharmaceutical composition of the invention may be in the form of a liposome in which protein of the present invention is combined, in addition to other pharmaceutically acceptable carriers, with amphipathic agents such as lipids which exist in aggregated form as micelles, insoluble monolayers, liquid crystals, or lamellar layers in aqueous solution. Suitable lipids for liposomal formulation include, without limitation, monoglycerides, diglycerides, sulfatides, lysolecithin, phospholipids, saponin, bile acids, and the like. Preparation of such liposomal formulations is within the level of skill in the art, as disclosed, for example, in U.S. Patent No. 4,235,871; U.S. Patent No. 4,501,728; U.S. Patent No. 4,837,028; and U.S. Patent No. 4,737,323, all of which are incorporated herein by reference.

As used herein, the term "therapeutically effective amount" means the total amount of each active component of the pharmaceutical composition or method that is sufficient to show a meaningful patient benefit, i.e., treatment, healing, prevention or amelioration of the relevant medical condition, or an increase in rate of treatment, healing, prevention or amelioration of such conditions. When applied to an individual active ingredient, administered alone, the term refers to that ingredient alone. When applied to a combination, the term refers to combined amounts of the active ingredients that result in the therapeutic effect, whether administered in combination, serially or simultaneously.

In practicing the method of treatment or use of the present invention, a therapeutically effective amount of protein of the present invention is administered to a mammal having a condition to be treated. Protein of the present invention may be administered in accordance with the method of the invention either alone or in combination with other therapies such as treatments employing cytokines, lymphokines or other hematopoietic factors. When co-administered with one or more cytokines, lymphokines or other hematopoietic factors, protein of the present invention may be administered either simultaneously with the cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors, or sequentially. If administered sequentially, the attending physician will decide on the appropriate sequence of administering protein of the present invention in combination with cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors.

Administration of protein of the present invention used in the pharmaceutical composition or to practice the method of the present invention can be carried out in a variety of conventional ways, such as oral ingestion, inhalation, topical application or cutaneous, subcutaneous, intraperitoneal, parenteral or intravenous injection. Intravenous administration to the patient is preferred.

When a therapeutically effective amount of protein of the present invention is administered orally, protein of the present invention will be in the form of a tablet, capsule, powder, solution or elixir. When administered in tablet form, the pharmaceutical composition of the invention may additionally contain a solid carrier such as a gelatin or an adjuvant. The tablet, capsule, and powder contain from about 5 to 95% protein of the present invention, and preferably from about 25 to 90% protein of the present invention. When administered in liquid form, a liquid carrier such as water, petroleum, oils of animal or plant origin such as peanut oil, mineral oil, soybean oil, or sesame oil, or synthetic oils may be added. The liquid form of the pharmaceutical composition may further contain physiological saline solution, dextrose or other saccharide solution, or glycols such as ethylene glycol, propylene glycol or polyethylene glycol. When administered in liquid form, the pharmaceutical composition contains from about 0.5 to 90% by weight of protein of the present invention, and preferably from about 1 to 50% protein of the present invention.

When a therapeutically effective amount of protein of the present invention is administered by intravenous, cutaneous or subcutaneous injection, protein of the present invention will be in the form of a pyrogen-free, parenterally acceptable aqueous solution. The preparation of such parenterally acceptable protein solutions, having due regard to pH, isotonicity, stability, and the like, is within the skill in the art. A preferred pharmaceutical composition for intravenous, cutaneous, or subcutaneous injection should contain, in addition to protein of the present invention, an isotonic vehicle such as Sodium Chloride Injection, Ringer's Injection, Dextrose Injection, Dextrose and Sodium Chloride Injection, Lactated Ringer's Injection, or other vehicle as known in the art. The pharmaceutical composition of the present invention may also contain stabilizers, preservatives, buffers, antioxidants, or other additives known to those of skill in the art.

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The amount of protein of the present invention in the pharmaceutical composition of the present invention will depend upon the nature and severity of the condition being treated, and on the nature of prior treatments which the patient has undergone. Ultimately, the attending physician will decide the amount of protein of the present invention with

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which to treat each individual patient. Initially, the attending physician will administer low doses of protein of the present invention and observe the patient's response. Larger doses of protein of the present invention may be administered until the optimal therapeutic effect is obtained for the patient, and at that point the dosage is not increased further. It is contemplated that the various pharmaceutical compositions used to practice the method of the present invention should contain about $0.01~\mu g$ to about 100~mg (preferably about 0.1~ng to about 10~mg, more preferably about $0.1~\mu g$ to about 1~mg) of protein of the present invention per kg body weight.

The duration of intravenous therapy using the pharmaceutical composition of the present invention will vary, depending on the severity of the disease being treated and the condition and potential idiosyncratic response of each individual patient. It is contemplated that the duration of each application of the protein of the present invention will be in the range of 12 to 24 hours of continuous intravenous administration. Ultimately the attending physician will decide on the appropriate duration of intravenous therapy using the pharmaceutical composition of the present invention.

Protein of the invention may also be used to immunize animals to obtain polyclonal and monoclonal antibodies which specifically react with the protein. Such antibodies may be obtained using either the entire protein or fragments thereof as an immunogen. The peptide immunogens additionally may contain a cysteine residue at the carboxyl terminus, and are conjugated to a hapten such as keyhole limpet hemocyanin (KLH). Methods for synthesizing such peptides are known in the art, for example, as in R.P. Merrifield, J. Amer.Chem. Soc. <u>85</u>, 2149-2154 (1963); J.L. Krstenansky, *et al.*, FEBS Lett. <u>211</u>, 10 (1987). Monoclonal antibodies binding to the protein of the invention may be useful diagnostic agents for the immunodetection of the protein. Neutralizing monoclonal antibodies binding to the protein may also be useful therapeutics for both conditions associated with the protein and also in the treatment of some forms of cancer where abnormal expression of the protein is involved. In the case of cancerous cells or leukemic cells, neutralizing monoclonal antibodies against the protein may be useful in detecting and preventing the metastatic spread of the cancerous cells, which may be mediated by the protein.

For compositions of the present invention which are useful for bone, cartilage, tendon or ligament regeneration, the therapeutic method includes administering the composition topically, systematically, or locally as an implant or device. When administered, the therapeutic composition for use in this invention is, of course, in a

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pyrogen-free, physiologically acceptable form. Further, the composition may desirably be encapsulated or injected in a viscous form for delivery to the site of bone, cartilage or tissue damage. Topical administration may be suitable for wound healing and tissue repair. Therapeutically useful agents other than a protein of the invention which may also optionally be included in the composition as described above, may alternatively or additionally, be administered simultaneously or sequentially with the composition in the methods of the invention. Preferably for bone and/or cartilage formation, the composition would include a matrix capable of delivering the protein-containing composition to the site of bone and/or cartilage damage, providing a structure for the developing bone and cartilage and optimally capable of being resorbed into the body. Such matrices may be formed of materials presently in use for other implanted medical applications.

The choice of matrix material is based on biocompatibility, biodegradability, mechanical properties, cosmetic appearance and interface properties. The particular application of the compositions will define the appropriate formulation. Potential matrices for the compositions may be biodegradable and chemically defined calcium sulfate, tricalciumphosphate, hydroxyapatite, polylactic acid, polyglycolic acid and polyanhydrides. Other potential materials are biodegradable and biologically well-defined, such as bone or dermal collagen. Further matrices are comprised of pure proteins or extracellular matrix components. Other potential matrices are nonbiodegradable and chemically defined, such as sintered hydroxapatite, bioglass, aluminates, or other ceramics. Matrices may be comprised of combinations of any of the above mentioned types of material, such as polylactic acid and hydroxyapatite or collagen and tricalciumphosphate. The bioceramics may be altered in composition, such as in calcium-aluminate-phosphate and processing to alter pore size, particle size, particle shape, and biodegradability.

Presently preferred is a 50:50 (mole weight) copolymer of lactic acid and glycolic acid in the form of porous particles having diameters ranging from 150 to 800 microns. In some applications, it will be useful to utilize a sequestering agent, such as carboxymethyl cellulose or autologous blood clot, to prevent the protein compositions from disassociating from the matrix.

A preferred family of sequestering agents is cellulosic materials such as alkylcelluloses(including hydroxyalkylcelluloses),including methylcellulose, ethylcellulose, hydroxyethylcellulose, hydroxypropylcellulose, hydroxypropyl-methylcellulose, and carboxymethylcellulose, the most preferred being cationic salts of carboxymethylcellulose (CMC). Other preferred sequestering agents include hyaluronic acid, sodium alginate,

poly(ethylene glycol), polyoxyethylene oxide, carboxyvinyl polymer and poly(vinyl alcohol). The amount of sequestering agent useful herein is 0.5-20 wt%, preferably 1-10 wt% based on total formulation weight, which represents the amount necessary to prevent desorbtion of the protein from the polymer matrix and to provide appropriate handling of the composition, yet not so much that the progenitor cells are prevented from infiltrating the matrix, thereby providing the protein the opportunity to assist the osteogenic activity of the progenitor cells.

In further compositions, proteins of the invention may be combined with other agents beneficial to the treatment of the bone and/or cartilage defect, wound, or tissue in question. These agents include various growth factors such as epidermal growth factor (EGF), platelet derived growth factor (PDGF), transforming growth factors (TGF- α and TGF- β), and insulin-like growth factor (IGF).

The therapeutic compositions are also presently valuable for veterinary applications. Particularly domestic animals and thoroughbred horses, in addition to humans, are desired patients for such treatment with proteins of the present invention.

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The dosage regimen of a protein-containing pharmaceutical composition to be used in tissue regeneration will be determined by the attending physician considering various factors which modify the action of the proteins, e.g., amount of tissue weight desired to be formed, the site of damage, the condition of the damaged tissue, the size of a wound, type of damaged tissue (e.g., bone), the patient's age, sex, and diet, the severity of any infection, time of administration and other clinical factors. The dosage may vary with the type of matrix used in the reconstitution and with inclusion of other proteins in the pharmaceutical composition. For example, the addition of other known growth factors, such as IGF I (insulin like growth factor I), to the final composition, may also effect the dosage. Progress can be monitored by periodic assessment of tissue/bone growth and/or repair, for example, X-rays, histomorphometric determinations and tetracycline labeling.

Polynucleotides of the present invention can also be used for gene therapy. Such polynucleotides can be introduced either *in vivo* or *ex vivo* into cells for expression in a mammalian subject. Polynucleotides of the invention may also be administered by other known methods for introduction of nucleic acid into a cell or organism (including, without limitation, in the form of viral vectors or naked DNA).

Cells may also be cultured *ex vivo* in the presence of proteins of the present invention in order to proliferate or to produce a desired effect on or activity in such cells. Treated cells can then be introduced *in vivo* for therapeutic purposes.

Patent and literature references cited herein are incorporated by reference as if fully set forth.

Table 3

Sel.	Si	Tissue	Cell Type
AA	Species		
AB	Human	Kidney	19-23wks., M/F pool of 5
	Human	Fetal Lung	Fetal Lung
AC	Human	Placenta	26yrs., 1 specimen
AD	Murine	Embryo	Fetal ES cells
AE	Murine	Spleen	Adult spleen
AF	Murine	Fetal Brain	Fetal Brain
AG	Murine	Fetal Brain	Fetal Brain
AH	Murine	Fetal Thymus	Fetal Thymus
AI	Human	Blood	Adult PBMC/TH1or2
AJ	Human	Testes	10-61yrs., pool of 11
AK	Human	Kidney	19-23wks., M/F pool of 5
AL -	Human	Neural	Adult Glioblastoma line TG-1
AM	Human	Kidney	19-23wks., M/F pool of 5
AN	Murine	Bone Marrow	Adult Stromal cell line FCM-4
AO	Murine	Thymus	Adult Subtr. Adult Thymus
AP	Human	Placenta	26yrs., 1 specimen
AQ	Human	Ovary	PA-1 Teratocarcinoma
AR	Human	Retina	16-75yrs., pool of 76
AS	Human	Brain	19-23wks., M/F pool of 5
ΑT	Human	Blood	Adult lymphocytes+dend. cells
AU	Human	Testes	10-61 yrs., pool of 11
AV	Murine	Spleen	Adult spleen
AW	Human	Ovary	PA-1 Teratocarcinoma
AX	Human	Testes	10-61yrs., pool of 11
AY	Human	Retina	16-75yrs., pool of 76
AZ	Human	Colon	Caco-2 Adenocarcinoma
В	Human	Blood	PeripheralBloodMononuclearCell
BA	Human	Placenta	26yrs., 1 specimen
BB	Human	Blood	Adult PBMC/TH1or2
BC	Murine	Embryo	Fetal ES cells
BD	Human	Kidney	19-23wks., M/F pool of 5
BE	Human	Blood	Adult PBMC/TH1or2
BF	Human	Brain	19-23wks., M/F pool of 5
BG	Human	Brain	N/A
BH	Human	Ovary	PA-1 Teratocarcinoma
BI	Human	Kidney	19-23wks., M/F pool of 5
BJ	Human	Ovary	PA-1 Teratocarcinoma
BK	Human	Retina	16-75yrs., pool of 76
BL	Human	Testes	10-61yrs., pool of 11
BM	Human	Muscle	N/A
BN	Human	Placenta	26yrs., 1 specimen
BO	Human	Retina	16-75yrs., pool of 76
BP	Human	Kidney	19-23wks., M/F pool of 5
		Colon	Caco-2 Adenocarcinoma Caco2
BQ	Human	COIOII	Caco-2 Adenocarcinoma Caco2

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BR	Human	Kidney	19-23wks., M/F pool of 5
BS	Human	Pituitary	Adult Pituitary
BT	Human	Blood	Adult PBMC
BU	Human	Placenta	26yrs., 1 specimen
BV	Human	Brain	N/A
BW	Human	Blood	Adult PBMC
BX	Human	Ovary	PA-1 Teratocarcinoma
BY	Human	Blood	Adult PBMC/TH1or2
BZ	Human	Kidney	19-23wks., M/F pool of 5
C	Human	Blood	PeripheralBloodMononuclearCell
CA	Murine	Embryo	Fetal ES cell embryoid bodies
CB	Human	Brain	19-23wks., M/F pool of 5
CC .	Human	Brain	N/A
CD	Human	Brain	19-23wks., M/F pool of 5
CE	Human	Blood	Adult lymphocytes+dend. cells
CF	Human	Placenta	26yrs., 1 specimen
CG	Human	Testes	
CH	Human		10-61yrs., pool of 11
CI		Kidney	19-23wks., M/F pool of 5 N/A
CJ	Human	Brain	
	Human	Brain	19-23wks., M/F pool of 5
CK	Human	Testes	10-61yrs., pool of 11
CL	Human	Retina	16-75yrs., pool of 76
CM	Human	Adult Lung	Adult Lung
CN	Human	Brain	19-23wks., M/F pool of 5
CO	Human	Brain	N/A
CP	Human	SalivaryGland	N/A
CQ	Human	Heart	13-73yrs., pool of 3
CR	Human	Testes	10-61yrs., pool of 11
CS	Human	Brain	19-23wks., M/F pool of 5
CT	Human	Brain	N/A
CU	Human	Pineal Gland	N/A
CV	Human	Mammary	Adult Human Mammary
CW	Human	Brain	19-23wks., M/F pool of 5
CY	Human	Pineal Gland	N/A
CZ	Human	Testes	10-61yrs., pool of 11
D	Human	Blood	PeripheralBloodMononuclearCell
DA	Human	Placenta	26yrs., 1 specimen
DB	Human	Prostate	Adult Prostate
DC	Human	Pineal Gland	Adult Pineal Gland
DD	Human	Testes	10-61yrs., pool of 11
DE	Human	Testes	Adult NCCIT TeratoCA
DF	Human	Brain	N/A
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DG	Human	Placenta	26yrs., 1 specimen
DH	Human	Brain	19-23wks., M/F pool of 5
DI	Human	Testes	10-61yrs., pool of 11
DJ	Human	Placenta	26yrs., 1 specimen
DK	Human	Fetal Kidney2	Fetal Kidney

DL ·	Human	Brain	N/A
DM	Human	Brain	N/A
DN	Human	Brain	19-23wks., M/F pool of 5
DO	Human	Testes	10-61yrs., pool of 11
DP	Murine	Embryo	Fetal ES cell embryoid bodies
DQ	Human	Placenta	26yrs., 1 specimen
DR	Human	SalivaryGland	N/A
DT	Human	Brain	N/A
DU	Human	Brain	19-23wks., M/F pool of 5
DV	Human	Pineal Gland	Adult Pineal Gland
DW	Human	Brain	N/A
DX	Human	Testes	10-61yrs., pool of 11
DY	Human	Brain	N/A
DZ	Human	Testes	Adult NCCIT TeratoCA
E	Human	Blood	PeripheralBloodMononuclearCell
EA	Human	Brain	19-23wks., M/F pool of 5
EB	Human	Melanoma	Adult Melanoma
EC	Human	Brain	N/A
ED		Placenta	-
	Human		26yrs., 1 specimen
EE	Human	Testes	10-61yrs., pool of 11
EF	Human	Liver	Adult Liver
EG	Human	Pancreas	Adult HPC-3 Ductal AdenoCA
EH	Human	Blood	PeripheralBloodMononuclearCell
EI	Human	Brain	19-23wks., M/F pool of 5
EJ	Human	Placenta	26yrs., 1 specimen
EK	Human	Brain	19-23wks., M/F pool of 5
EL	Human	Testes	10-61yrs., pool of 11
EM	Human	Fetal Kidney2	Fetal Kidney
EN	Human	Brain	19-23wks., M/F pool of 5
EO	Human	Adrenal Gland	Adult Adrenal Gland
EP	Human	Placenta	26yrs., 1 specimen
EQ	Human	Testes	10-61yrs., pool of 11
ER	Human	Brain	19-23wks., M/F pool of 5
ES	Human	Placenta	26yrs., 1 specimen
ET	Human	Testes	10-61yrs., pool of 11
EU	Human	Kidney	Adult Kidney
EV	Human	Stomach	Adult Stomach
EW	Human	Placenta	26yrs., 1 specimen
EX	Human	Testes	10-61yrs., pool of 11
EY	Human	Brain	19-23wks., M/F pool of 5
EZ	Human	Fetal Kidney2	Fetal Kidney
FA	Human	Brain	19-23wks., M/F pool of 5
FB	Human	Placenta	26yrs., 1 specimen
FC	Human	Testes	10-61yrs., pool of 11
FD	Human	SalivaryGland	N/A
FE	Human	Brain	N/A
FF	Human	Testes	Adult NCCIT TeratoCA
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FG	Human	Brain	N/A
FH	Human	Brain	19-23wks., M/F pool of 5
FI	Human	Small Intest	Adult Small Intestine
FJ	Human	Lung CA	Adult Lung CA
FK	Human	Kidney	Adult Kidney
FM	Human	Brain	N/A
FN	Human	Brain	
FO	Human	Brain	19-23wks., M/F pool of 5 N/A
FP	Human	Placenta	
FQ	Human		26yrs., 1 specimen
FR		Testes	10-61yrs., pool of 11
FS	Human Human	Placenta	26yrs., 1 specimen
		Testes	10-61yrs., pool of 11
FT	Chicken	Fetal Lung	Fetal Lung
FU	Chicken	Limb Bud	Fetal St. 23 Limb Bud
FV	Human	Testes	Adult NCCIT TeratoCA
FW	Human	Testes	Adult NCCIT TeratoCA
FX	Human	Brain	19-23wks., M/F pool of 5
FY	Human	Placenta	26yrs., 1 specimen
FZ	Human	Placenta	26yrs., 1 specimen
G	Human	Blood	PeripheralBloodMononuclearCell
GA	Human	Testes	10-61yrs., pool of 11
GB	Human	Placenta	26yrs., 1 specimen
GC	Human	Testes	10-61yrs., pool of 11
GD	Human	Placenta	26yrs., 1 specimen
GE	Human	Brain	N/A
GF	Human	Brain -	19-23wks., M/F pool of 5
GG	Human	Fetal Kidney2	Fetal Kidney
GH	Human	Placenta	26yrs., 1 specimen
GI	Human	Retinoblastoma	Adult Retinoblastoma Y79
GJ	Murine	Spleen	Adult Spleen
GK	Human	Fetal Kidney2	Fetal Kidney
GL	Murine	Lymph Node	Adult Lymph Node
GM	Human	Uterus	N/A
GN	Human	Blood	PeripheralBloodMononuclearCell
GO	Human	Adrenal Gland	Adult Adrenal Gland
GP	Human	Ovary	PA-1 Teratocarcinoma
GQ	Human .	Pineal Gland	N/A
GR	Human	Pancreas	Adult HPC-3 Ductal AdenoCA
GS -	Human	Retina	16-75yrs., pool of 76
GT	Human	Brain	N/A
GU	Human	Fetal Kidney2	Fetal Kidney
GV	Rat	Retina	Newborn Retina
GW	Chicken	Limb Bud	Fetal St.26 Limb Bud
GX	Human	Brain	N/A
GY	Human	Testes	10-61 yrs., pool of 11
GZ	Human	Brain	19-23wks., M/F pool of 5
H	Human	Blood	PeripheralBloodMononuclearCell
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HA	Human	Testes	Adult NCCIT TeratoCA
HB	Human	Fetal Kidney2	Fetal Kidney
HC	Human	Brain	19-23wks., M/F pool of 5
HD	Human	Brain	N/A
HE	Human	Testes	10-61yrs., pool of 11
HF	Human	Brain	
HG	Human	Fetal Kidney2	19-23wks., M/F pool of 5
HH	Human	Brain	Fetal Kidney N/A
HI	Human	Testes	
HJ	Human	Brain	10-61yrs., pool of 11 N/A
HK	Human	Brain	
			19-23wks., M/F pool of 5
HL HM	Human	Fetal Kidney2	Fetal Kidney
	Human	Testes	Adult NCCIT TeratoCA
HN	Human	Fetal Kidney2	Fetal Kidney
HO	Human	Brain	N/A
HP	Human	Brain	19-23wks., M/F pool of 5
HQ	Human	Testes	10-61yrs., pool of 11
HR	Human	Brain	N/A
HS	Human	Brain	N/A
HT	Human	Brain	19-23wks., M/F pool of 5
HU	Human	Fetal Kidney2	Fetal Kidney
HV	Human	Testes	10-61yrs., pool of 11
HW	Human	Brain	N/A
HX	Human	Brain Hippoca	Adult Brain Hippocampus
HY	Human	Trachea	Adult Trachea
HZ	Human	Brain Thalamus	Adult Brain Thalamus
I	Human	Blood	PeripheralBloodMononuclearCell
IA	Human	Thyroid	Adult Thyroid
IB	Human	Embryonal CA	Fetal NT2-D1
IC	Human	WER1-Rb1 line	Adult Retinoblastoma
ID	Human	Muscle	N/A
IE	Human	Brain	19-23wks., M/F pool of 5
IF	Human	Uterus	N/A
IG	Human	Testes	10-61yrs., pool of 11
IH	Human	Muscle	N/A
П	Human	Brain	N/A
n	Human _.	Blood	PeripheralBloodMononuclearCell
IK	Human	Retinoblastoma	Adult Retinoblastoma Y79
${ m I\!L}$	Human	Retina	16-75yrs., pool of 76
IM	Human	Various	Various
IN	Human	Prostate	Adult Prostate
IO	Human	Brain	19-23wks., M/F pool of 5
IP	Human	Fetal Kidney2	Fetal Kidney
IQ	Human	Prostate	Adult Prostate
IR	Human	Brain Hippoca	Adult Brain Hippocampus
IS	Human	Trachea	Adult Trachea
IT	Human	Brain Thalamu	Adult Brain Thalamus

SEQUENCE LISTING

131	CHAIRMAI	INFORMATION
۱т.	GENERAL	INFORMATION

- (i) APPLICANT: Jacobs, Kenneth McCoy, John LaVallie, Edward Racie, Lisa Merberg, David Treacy, Maurice Spaulding, Vikki Agostino, Michael
- (ii) TITLE OF INVENTION: SECRETED, EXPRESSED SEQUENCE TAGS
- (iii) NUMBER OF SEQUENCES: 1519
- (iv) CORRESPONDENCE ADDRESS
 - (A) ADDRESSE: Genetics Institute, Inc.
 - (B) STREET: 87 CambridgePark Drive
 - (C) CITY: Cambridge
 - (D) STATE: Massachusetts
 - (E) COUNTRY: U.S.A
 - (F) ZIP: 02140
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy Disk
 - (B) COMPUTER: IBM PC Compatible
 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER:
 - (B) FILING DATE:
 - (C) CLASSIFICATION:
- (vii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Brown, Scott A.
 - (B) REGISTRATION NUMBER: 32,724
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (617) 498-B224
 - (B) TELEFAX: (617) 876-5851
- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

GGAGATGTTG	AGGTGGCTGC	TGACCTTGGG	TCTCATCTCC	TTGATTTTCT	TTATCTTCTT	60
CATTGCCGTC	CTCTCTAGGC	TGTCTTTGGC	GAGGAGGCC	CCTGCGGAAT	CGTGGTCTAT	120
ATCCCCGATA	CATATTCTGC	CTCACTGGTC	TACCTTGTTC	TCCTGCACCC	TGGTTGTCAG	180
CACCCTCCAT	CACTTCTCC	TOCACACCAC	CCTTCCAATA	CTCTCCTCCA	CGCCCATAGG	240

> 300 360 400

GTCTCCGCAT GTAGTAAGGT GGGAACCTTC GCCTGCGGTA GGGCCGGCGT TGTTGGGCCT GGCCTTCGGG AGCACTCTCC GATCCCTCGT TCTTTTCCCC ACTCTCACTA TTCTGGTAAT TTTGCTGGTA ATTGCGTGGA GGAGAACAGG TAGACTCGAG	300 360 400
(2) INFORMATION FOR SEQ ID NO:2:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 165 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
GAATTAGTTG CCAGCACTTT AAAAATTGGT ATAGTTCACA TAAATATTCT GAATTCAGGC TTTTGGAAAA GTTGTGGACC CAAGAATACT AGGCCCGCAT TTTCTTACGT CAACATTCTT TCCAGGATGA TGAATGGACT GTTCTCTTTG GCCCCCTATC TCGAG	60 120 165
(2) INFORMATION FOR SEQ ID NO:3:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 299 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
GAATTCTAGA CCTTCCTCTC CTACTCCCTT CCTTAGGCTC CTGAACTCGT TTGCTCCTAA ATCTTGTTAA TTCTTTTTCT CTGGATTTTG GTTTCTTTTTG GCTTTCCCCT TTCTCTGTCT CCAACACTCT TTCCCCATGT CTTTCTGGCT GTCTCTATGT TCCTCTTCTC TTATCCTCAA CTTTCTGTCC ATTCGGGCCT CCTCCCCACC CCACGCCC CAGCCCCTCC CTCCTTGGTC TCCTTTTCGA TATGCCAAAC CAATTTTGGG TCGAGTGCAT TCCCTCGAG (2) INFORMATION FOR SEQ ID NO:4:	60 120 180 240 299
•	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 241 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:	
GCGATTGAAT TCTAGACCTG CCTGGATTGC CTTCTGTTGT GGTAGACAAA TCACCATTAA ATGACTAAGT TTCACTGTTT TATGTGTTAA TGATCCTTAA TAACAAAAAG TTTTAAAGTC TTAATTTCGT AAGATTATGT AAAGGTTAAG AAAGAAATTT TAAGTGAAAA TGATAAAACC AAGCAAATGT TTATTAGTTC AATTGTTTTT CTTTTATCT TGCAGCAACG CACATCTCGA G	60 120 180 240 241
(2) INFORMATION FOR SEQ ID NO:5:	
(i) SEQUENCE CHARACTERISTICS:	

- (A) LENGTH: 368 base pairs(B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

GAATTCGGCC	TTCATGGCCT	AGGAAATGAC	TTTATTGTGG	TTGAATTAGT	TAAAGGGTAC	60
TTACATTACG	TGTTTGATTT	GGGAAATGGT	GCTAACCTCA	TCAAAGGAAG	CTCAAATAAA	120
CCTCTCAATG	ACAATCAGTG	GCACAACGTG	ATGATATCAA	GGGACACCAG	CAACCTCCAC	180
ACTGTAAAGA	TTGACACAAA	AATCACAACG	CAAATCACCG	CCGGAGCCAG	GAACTTAGAC	240
CTCAAGAGTG	ACTTATATAT	AGGAGGAGTA	GCTAAAGAAA	CATACAAATC	CTTACCAAAA	300
CTTGTACATG	CCAAAGAAGG	CTTTCAAGGC	TGCCTGGCAT	CAGTTGATTT	AAATGGACGG	360
CTCTCGAG						368

- (2) INFORMATION FOR SEQ ID NO:6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 430 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

GAATTCGGCC	TTCATGGCCT	ATAAAATTTA	AAAATGCTAA	GGATCTGGCC	CCACAGGCCC	60
CAAAGCTTTC	ACAGAGCTCC	TCTTAGACAT	GAAGATGCCC	ATTGGCCTCC	TAGGTCCCAG	120
GAGGTGTGGG	CAGGACTGCC	CTTCCTCCGT	TCTCATTGCG	GGGCTCCTGA	AGGGGGTATC	180
TGAAAGTATG	TAAATCTGAT	GGGAGGTCTG	ATCCTCCTTT	TGCTAGCCCC	TGAACTCTGT	240
GGTGGAGTCT	GGCTGATGGC	CAGGGCCATG	TCCTAGAGGG	GACTCCCCTG	CAGGAGGCGG	300
GCTCTAAAGG	GAGTGGTGTC	CCTTTAGGCC	AGGGTTCACA	GTCGGGGTGG	TCTGGAGACT	360
GCAGGACTCA	GGGCCTGGGG	GTGGCATCAG	TCTGGCCAGG	CCCTGCGTCA	CTTGCACCCA	420
CTGTCTCGAG						430

- (2) INFORMATION FOR SEQ ID NO:7:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 391 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

GGGTGGCTCA TGCCTGTAAT	CCCGGCACTT	GGGTAGGCCA	GGGCAGCAGG	ATCGCTTGAG	60
CCCGGGAGTT CGAGACAGCC	TGGGCAACAT	GGTGAGACCC	TGTCTCCATA	ATTTTTTAAA	120
AAAAATTGCC AGGTGTGGTC (GTGTGTGCCT	GTGAGGCTGA	GGTGGGAGGC	TCGCTTGAGC	180
CCAGGGGTCA AGGCTGCAGT	GAGCCATGAC	TGCACGCCAC	TGCACTCCAG	CGTGGGTGAC	240
AGAGTGAGAT ACTGTATAAA	AAAAAAAAGC	TAAAACAAAA	CAAGAAGTAT	TATCTTAAGC	300
ATGTTATTTA GAAATATGGA	GATAAATAAA	AATAACTGAA	AGTAGGTCGT	TGCTTCTGAG	360
GAGAGAAATT GGGAGTTGGC	AAGGTCTCGA	G			391

(2) INFORMATION FOR SEQ ID NO:8:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 351 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

GGAA GACCAAAGAG 60
TTGC CTTGTTGAAA 120
ATGA CATTCAGCAA 180
CTGG CCTGGCCCCA 240
AACA GCCTTTACAG 300
TCGA G 351

- (2) INFORMATION FOR SEQ ID NO:9:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 354 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

GTGATGTGTC	ACCCCAAGTG	CTCCACGTGC	TTGCCAGCCA	CCTGCGGCTT	GCCTGCTGAA	60
TATGCCACAC	ACTTCACCGA	GGCCTTCTGC	CGTGACAAAA	TGAACTCCCC	AGGTCTCCAG	120
ACCAAGGAGC	CCAGCAGCAG	CTTGCACCTG	GAAGGGTGGA	TGAAGGTGCC	CAGGAATAAC	180
AAACGAGGAC	AGCAAGGCTG	GGACAGGAAG	TACATTGTCC	TGGAGGGATC	AAAAGTCCTC	240
ATTTATGACA	ATGAAGCCAG	AGAAGCTGGA	CAGAGGCCGG	TGGAAGAATT	TGAGCTGTGC	300
CTTCCCGACG	GGGATGTATC	TATTCATGGT	GCCGTTGGTG	CTTCCAAACT	CGAG	354

- (2) INFORMATION FOR SEQ ID NO:10:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 432 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

GAATTCGGCC	TTCATGGNCT	AGGAGGAGGA	AGAGGAGTAC	GAGGATGACG	AGGGAGGAGG	60
GGGAAGACGA	GGAGGAGGAG	GAGGCTGCGG	CAGAGGCTGC	CGCGGGGGCC	AAACATGACG	120
ATGCCCACGC	CGAGATGCCT	GATGACGCCA	AGAAGTAAGG	GGGGCAGAGA	TGGATGAAGA	180
GAAAGCCCAC	GAAGAAAAA	GCCTGGTTTT	GTTTTTCCCA	GAATATCGAT	GGACTTAAAA	240
AGGCTCAGGT	TTTTGACCAA	AATACAATGT	GAATTTATTC	TGACATTCCT	AAAATAGATT	300
AAATTAAAGC	AATTAGATCC	TGGCCAGCTC	GATTCAAATT	TGACTTTCAT	TTTGAACATA	360
ATAAATATAT	CAAAAGGTGT	TAAAGAAAAC	TGAATTAAAC	CCAAAATTAT	GTTTTCATGG	420
TCTCTCCTCG	AG					432

(2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 687 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

CTATTTTACA	TGCCCACCAG	CATTGTATGG	GGCTTCTCAC	TTGTCCACAT	GCTTGCCTGT	60
GTCATATTTG	ACTTAAAGCT	TATTTTGACG	GGAAACCAAT	TTGTCCTTTT	TTTGGAAAGG	120
GATGGCACCA	CAGATGTGAC	GCGGACAATG	CATTTTGGGA	CCCCTACAGC	CTACGAGAAG	180
GAATGCTTCA	CATATGTCCT	CAAGGGCCAC	ATAGCTGTGA	GTGCAGCCGT	TTTCCCGACT	240
GGAACCAAAG	GTCACCTTCT	TGACTCCTTT	GCCCGTTCAG	CTTTATGGGA	TTCAGGCCTA	300
GATTACTTGC	ACGGGACTGG	ACATGGTGTT	GGGTCTTTTT	TGAATGTCCA	TGAAGGTCCT	.360
TGCGGCATCA	GTTACAAA^.C	ATTCTCTGAT	GAGCCCTTGG	AGGCAGGCAT	GATTGTCACT	420
GATGAGCCCG	GGTACTATGA	AGATGGGGCT	TTTGGAATTC	GCATTGAGAA	TGTTGTCCTT	480
GTGGTTCCTG	TGAAGACCAA	GTATAATTTT	AATAACCGGG	GAAGCCTGAC	CTTTGAACCT	540
CTAACATTGG	TTCCAATTCA	GACCAAAATG	ATAGATGTGG	ATTCTCTTAC	AGACAAAGAG	600
TGCGACTGGC	TCAACAATTA	CCACCTGACC	TGCAGGGATG	TGATTGGGAA	GGAATTGCAG	660
AAACAGGGCC	GCCAGGAAGC	TCTCGAG				687

- (2) INFORMATION FOR SEQ ID NO:12:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 420 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

GAATTCGGCC	TTCATGGCCT	AGTCGGTGGG	TGCCTGTAGT	CCCAGCTACT	TGGGAGGCTG	60
AGGGAGGAGA	ACTGCTTGAA	CCCGGGAGGC	AGAGGTTGCA	GTGAGCCGAG	ATTGTGCCAC	120
TGTACTCCAG	CCTGGGCCAC	AAAGCAAGAA	TCTGTCTCAA	ААААААААА	AAGAAAAGAA	180
AAGAATAAAT	TTCTTTTCCC	CTTGAAGAAG	TTGATTTAGG	CACAGACTCT	GGACTCTGGA	240
TTTCCCACAA	TGTCTTATCT	AGTCAACTCA	AGTATCTGGA	CTACAATTTT	CTTGAAAGCA	300
AAGCCCATAT	ATTAATAATC	TTTACTTGTA	TATAAATATT	CAATAAATCA	TTAAGTAAAT	360
GTGTAGAAGA	ATTTTATGCT	CAATAAGATC	CACCCGATCA	TGCATTTGAA	AATTCTCGAG	420

- (2) INFORMATION FOR SEQ ID NO:13:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 379 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

GAATTCGGCC	TTCATGGCCT	AGCACATACT	CTGCTTTTCT	GTCAACATCC	CATTTTGGGG	60
AAAGGAAAAG	TCATATTTAT	TCCTGCACCC	CAGTTTTTTA	ACTTGTTCTC	CCAGTTGTCC	120
CCCTCTTCTC	TGGGTGTAAG	AAGGGAAATT	GGAAAAAAAA	TATATATAT	ATTCTCCTTT	180
TAATGGTGGG	GGGCTACTGG	AGAGGAGAGA	CAGCAAGTCC	ACCCTAACTT	GTTACACAGC	240

ACATACCACA	GGTTCTGGAA	TTCTCATCTT	CGAACCTAGA	GAAATAGGTG	CTATAAACAG	300
GGAATTAAGC	AAAATGCTGG	ATGCTATAGA	TCTTTTAATT	GTCTTAATTT	TTTTTCTATT	360
ATTAAACAAC	AGGCTCGAG					379

- (2) INFORMATION FOR SEQ ID NO:14:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 528 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

GTTCATGGCC TACGGA	AAGT CAGCATGGAT	AACAGACTGA	TGGAACTCTT	TCCTGCCAAT	60
AAGCAAAGTG TTGAACA	ACTT CACAAAATAT	TTTACTGAGG	CAGGCTTGAA	AGAGCTTTCA	120
GAATATGTTC GGAATC	AGCA AACCATCGGA	GCTCGTAAGG	AGCTCCAGAA	AGAACTTCAA	180
GAACAGATGT CCCGTGC	STGA TCCATTTAAG	GATATAATTT	TATATGTCTA	GGAGGAGATG	240
AAAAAAAACA ACATCCC	CAGA GCCAGTTGTC	ATCGGAATAG	TCTGGTCAAG	TGTAATGAGC	300
ACTGTGGAAT GGAACAA	AAAA AGAGGAGCTT	GTAGCAGAGC	AAGCCATCAA	GCACTTGAAG	360
CAATACAGCC CTCTACT	TTGC TGCCTTTACT	ACTCAAGGTC	AGTCTGAGCT	GACTCTGTTA	420
CTGAAGATTC AGGAGTA	ATTG CTATGACAAC	ATTCATTTCA	TGAAAGCCTT	CCAGAAAATA	480
GTGGTGCTTT TTTATA	AAGC TGAAGTCCTG	AGCGAGGATG	CCCTCGAG		528

- (2) INFORMATION FOR SEQ ID NO:15:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 466 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

GAATTCGGCC	TTCATGGCCT	AGCCCAGGCC	ACGCTACACT	CTGCCCACAC	TGGTGAGCAG	60
GAGGTCTTCC	CACGCCCTGT	CATTAGGCTG	CATTTACTCT	TGCTAAATAA	AAGTGGGAGT	120
GGGGCGTGCG	CGTTATCCAT	GTATTGCCTT	TCAGCTCTAG	ATCCCCCTCC	CCTGCCTGCT	180
CTGCAGTCGT	GGGTGGGGCC	CGTGCGCCGT	TTCTCCTTGG	TAGCGTGCAC	GGTGTTGAAC	240
TGGGACACTG	GGGAGAAAGG	GGCTTTCATG	TCGTTTCCTT	CCTGCTCCTG	CTGCACAGCT	300
GCCAGGAGTG	CTCTGCCTGG	AGTCTGCAGA	CCTCAGAGAG	GTCCCAGCAC	TGGCTGTGGC	360
CTTTCAGGTG	TAGGCAGGTG	GGCTCTGCTT	CCCGATTCCC	TGTGAGCGCC	CACCCTCTCG	420
AAAGAATTTT	CTGCTTGCCC	TGTGACTGTG	CAGACTCTGG	CTCGAG		466

- (2) INFORMATION FOR SEQ ID NO:16:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 288 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GAATTCGGCC	TTCATGGCCT	AGCGTGATCC	TGGAACGTGC	TCTAGTTCGA	GAGAGTGAGG	60
GCTTTGAGGA	GCATGTACCA	TCTGATAACT	CTTGAAGATA	CAGAGAGAAA	TCCATCTTTT	120
CCCAGGTCTC	CTTCACTGAA	AACAAAAATC	TACTTACATA	CACTGTCACC	TTAGCATCAG	180
AGTCGGATTA	ATGAACTGCG	GAACAAGAGG	TTGTGAGAAT	CTAAGATGGA	ACCTTTCTTT	240
CTTTCTTTCT	TTTTTTTTAA	ATTTTGTATT	TTCCATCCAA	CACTCGAG		288

- (2) INFORMATION FOR SEQ ID NO:17:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 484 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

GAATTCGGCC	TTCATGGCCT	AGGGCTCTGC	TTATAAACTT	CAAAGTTACA	CTGAAGGATA	60
CGGTAAAAAC	ACCAGTTTAG	TAACCATTTT	TATGATTTGG	AATACCATGA	TGGGAACATC	120
TATACTAAGC	ATTCCTTGGG	GCATAAAACA	GGCTGGATTT	ACTACTGGAA	TGTGTGTCAT	180
CATACTGATG	GGCCTTTTAA	CACTTTATTG	CTGCTACAGA	GTAGTGAAAT	CACGGACTAT	240
GATGTTTTCA	TTGGATACCA	CTACCTGGGA	ATATCCAGAT	GTCTGCAGAC	ATTATTTCGG	300
CTCCTTTGGG	CAGTGGTCGA	GTCTCCTCTT	CTCCTTGGTG	TCTCTCATTG	GAGCAATGAT	360
AGTTTATTGG	GTGCTTATGT	CAAATTTTCT	TTTTAATACT	${\tt GGAAAGTTTA}$	TTTTTAATTT	420
TATTCATCAC	ATTAATGACA	CAGACACTAT	ACTGAGTACC	AATAATAGCA	ACCCTGGTCT	480
CGAG						484

- (2) INFORMATION FOR SEQ ID NO:18:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 519 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

GAATTGGCCT TO	CATGGCCTA	GGAGATATAC	CTAATGCTAG	ATGATGAGTT	AGTGGGTGCA	60
GCGCACCAGC G	TGGCACATG	TATACATATG	TAACTAACCT	GCACAATGTG	CACATGTACC	120
CTAAAACTTA A	AGTATATAT	АААААААА	GACNTCGCTA	GTGAGCACGC	TGTATACGAC	180
ATCGCTAATG A	GGACACCAT	ACAAGGCATC	GCTAACGATG	ACGCTGTACA	CAACATCACT	240
AATGATGACA CO	CGTATAAGA	CATCGCTAAT	TATGACGCTG	TATACGACAT	CGCTAATGAC	300
ACCGTACGAG G	CACGCTAAC	AAGGATGCTG	TACACAACAT	CGCTAATGAG	GACAGTGTAC	360
AAGCCATCGC T	AATGAGGAC	ACTGTATATG	ACATTGCTAA	CGAGGACACT	GTACAAGGCA	420
TTGCTAACGA G	GACGCTGTA	CACAACATCG	CTAATGACAC	CATATAAGAC	ATCACCAATG	480
AGGATGCTGT A	TATGACATC	GCTAATAACA	CCGCTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:19:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 342 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

GCAGCTCTCA	TCCTCGTCTC	CCCAACACCA	TAACGTCCTC	ATCCCGCCTC	CAACCCACAC	60
CAGGCCGAAG	CCCTCAGAGA	GTGTTTTCAT	CAGGAACCAC	TCTCGAACCT	GAAGGTTGAC	120
TTTAGCGTTT	AGCAACCCAG	GGCGGTGTGT	GTGTTTCCCG	TTTTGTTTTC	TGAGTGGTAG	180
CAGTGATCAC	CGTAATTCCA	TGTAGCCATG	TGCTAGCAGA	ACCCCTGTGT	CCTCACCGTG	240
GCCCGTGTGA	CCCCAGCCGA	CGAGTGCCCG	GCGGAGTCCC	CGCTGCCTTC	CCATGGTCCA	300
GTGAGCTGCC	AGGGCATCAC	ATGACTCTCA	GCTGGGCTCG	AG ·		342

(2) INFORMATION FOR SEQ ID NO:20:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 580 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

GAATTCGGCC	TTCATGGCCT	AGAGCAGCTC	TGAGGTAGAA	ATTACAACGA	TGAAAAGAGC	60
ACAACGTACA	AAACCAAGAA	AGAGTCTGTT	GTGTGAAGGG	TCATTCGATG	AAGAAGCTTC	120
TGCACAGTCC	TTTCAGGAAG	TGTTAAGTCA	ATGGAGAACC	${\tt GGAAATCATG}$	ATGACAACAA	180
GAAACAGAAT	TTACATGCAG	CAGTAAAAGA	CTCATTGGAA	GAATGCGAAG	TACAGACTAA	240
TCTGAAAATT	TGGAGAGAAC	CACTTAATAT	TGAACTTAAA	GAAGACATTC	TATCCTATAT	300
GGAAAAATTA	TGGCTTAAAA	AACACAGGAG	AACTCCACAA	GAGCAACTTT	TTAAAATGCT	360
ACCAGATACG	TTCCCACATC	CACATGAAAC	CACTGGTGAT	GCACAGTGTT	CTCAAAATGA	420
AAACGATGAA	GATAGTGATG	GTGAGGAGAC	CAAAGTACAA	CACACAGCTC	TTTTATTGCC	480
AGTAGAAACA	TTAAACATAG	AGAGACCTGA	ACCATCTCTA	AAGATAGTCG	AACTGGATGA	540
TACTTATGAA	GAGGAATTTG	AAGAAGCAGA	ACATCTCGAG			580

(2) INFORMATION FOR SEQ ID NO:21:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 301 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

TCATGGCCT	AGAAAGATCT	AATTATCATG	GACCTGCGAC	AGTTTCTTAT	60
TGTGCACAG	CCTTTGCCTT	GAGCAAACCC	ACAGAAAAGA	AGGACCGTGT	120
CTCAGCTCA	GTGACAAGGT	TCACAATGAT	GCTCAGAGTT	TTGATTATGA	180
TCTTGGGTG	CTGAAGAAGC	AAAGACCTTT	GATCAGTTGA	CACCAGAAGA	240
GGTTTGGAA	AGATTGTAAG	TAAAATAGAT	GGCGACAAGG	ATCGGCTCGA	300
					301
	TGTGCACAG CTCAGCTCA TCTTGGGTG	TTGTGCACAG CCTTTGCCTT CCTCAGCTCA GTGACAAGGT TCTTGGGTG CTGAAGAAGC	TGTGCACAG CCTTTGCCTT GAGCAAACCC CTCAGCTCA GTGACAAGGT TCACAATGAT TCTTGGGTG CTGAAGAAGC AAAGACCTTT	TGTGCACAG CCTTTGCCTT GAGCAAACCC ACAGAAAAGA CTCAGCTCA GTGACAAGGT TCACAATGAT GCTCAGAGTT TCTTGGGTG CTGAAGAAGC AAAGACCTTT GATCAGTTGA	TCATGGCCT AGAAGATCT AATTATCATG GACCTGCGAC AGTTTCTTAT TGTGCACAG CCTTTGCCTT GAGCAAACC ACAGAAAAGA AGGACCGTGT CCTCAGCTCA GTGACAAGGT TCACAATGAT GCTCAGAGTT TTGATTATGA TCTTGGGTG CTGAAGAAGC AAAGACCTTT GATCAGTTGA CACCAGAAGA GGTTTGGAA AGATTGTAAG TAAAATAGAT GGCGACAAGG ATCGGCTCGA

- (2) INFORMATION FOR SEQ ID NO:22:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 332 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

GAATTCGGCC TTCATGGCCT AAAAAAAGGA TGGTGTGTTG AGACCAGAAG CAGCAGCAGT	60
CCTCGACATC AACTACAACT TTCCTTCGCA CAGTGCATAC CCTCTGATAT ACTGAACCCA	120
ACGCCTATCC TCCAGCCCCC TAAGAACTAG AGAGGGAGCC TCACAACATT CCAATTTAAT	180
CCTTCAGAAA ATTCATTACT CTTCAAAGTT GTCTGTGGTT TTGTGACAAC GATATGACTA	240
GGTGCAAAAT GGCTTGCAAC TAATTAACAA ACATAGAAGC ATCCAACAAA CATATACGTG	300
CACAATCTGA GGATTTAGGG ATGAAGCTCG AG	332

- (2) INFORMATION FOR SEQ ID NO:23:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 239 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

GAATTCGGCC	TTCATGGCCT	ACCAGCCTGG	GCGACAGAGC	AAGACTCAGT	CTCAAAACAA	60
AACAAAACAA	AACAAAAAGA	GAAGGCTATT	ATTAACATTC	GAGATAATGT	GCCAGACTGC	120
TTCCATGTAT	TTTCATTATT	CTGTCCCAAA	TCTGGTGAAG	TGGGTATCTG	CACAGCTTTC	180
TCTAGATTGA	ACAACTAGTA	AGGGGGCTGG	CCCTGGAGAA	AGTTACCTCC	TGCCTCGAG	239

- (2) INFORMATION FOR SEQ ID NO:24:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 238 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

GAATTCGGCC	TTCATGGCCT	ACTTTTATAT	TGTTATTTTT	GTAAAGCATC	TTTTCTTCAA	60
TTCTTGTTGG	CATTCTGGGC	CAAAATATTT	CAGGTTGGTT	CGGTGTGGAG	TTAAGAAAAG	120
CAGGCGTTTT	AGTGGAGAAA	TGGGGAACAG	CATCAAGAAA	GGCTTTTTTC	CTTTTTTCTT	180
TTTTTTTTGG	AGACAGAGTC	TTGCCCTGTC	ACCCAGGCTG	GAGTGCAATG	GTCTCGAG	238

- (2) INFORMATION FOR SEQ ID NO:25:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 231 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

GAATTCGGCC TTCATGGCCT AGATGGATTT CTTAATTGAA GTACTTTTAT AATCACAGTG

ACTGAACAAA ATATTTTCAA AGACATTTGT CATTCCTTAA AGCCAAGATT TTAAAGACTA ATGTCCTTCC TGAGGGTTAC TTTACTATAC TGTGTATGGT GTATAGCCAC AGAAAGTCAG TCTGATAAAT TTTCAATGTG TAAGTGTGAT GCATTCAACC CAGATCTCGA G	120 180
(2) INFORMATION FOR SEQ ID NO:26:	231
(2) INTORIBITION FOR DBQ ID NO.201	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 307 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
GAATTCGGCC TTCATGGCCT ACACAGAGTA TATTTATAGC TATCTCAGGG TCCTTGTCCA ATTGTCTGTG TCATTTCTTC ATCTGCTTCT ACTGATTTT TCTGCTTCTG TTTACTCTTC ATTTTGGACC TATTTTCCCT TATTTGGTGC TTTGCATACA ATTTGTTGGG ACTGGATCTT TGCTAGTCCT TTAAATGTTT TTAAGCTTTG TTTTGGGATG CAGTTAGGGC ACTCAGAAAC AATCAGAAAC AATTTGATCC TTTTATGTCT CTTAAGCTTT GTTATAGGCA GGACCAGAGC TCTCGAG	60 120 180 240 300 307
(2) INFORMATION FOR SEQ ID NO:27:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
GAATTCGGCC TTCATGGCCT ACAATAATAG CCTCCCACCT GGTCTTCCTT CTTCAGTCTC TTCAGTCTTT CCCCAAAGCTC TTGAATCCTA CATGAACCCA TGCCTCGGTC AAAATATTAC AGGCTGCAGC CAATCTTCAA GTGGCATACA GGCCAAACAT CCATTTATAA TATGGTTGGA ATTCCTAACA CATTTTATCA TAGATCTAAT GCCATACAAT AGGTGGAGGT TAGATCCTCA CGCAACTCTC GAG	60 120 180 240 253
(2) INFORMATION FOR SEQ ID NO:28:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
GAATTCGGCC TTCATGGCCT ACAGAGAACT TGTGTTCCGG TTTATTGAAG TTCAGACACT TCTCCTCGCT CCATTCTGTC CACATTTGTG TGAGCACATC TGGACACTCC TGGACACTC TGACTCAATT ATGAATGCTT CATGGCCTGT GGCAGGTCCT GTTAATGAAG TTTTAATACA CTCCTCACAG TATCTTATGG AAGTAACACA TGACCTTAGA CTACGACTCA AGAACTATAT GATGCCAGCT CGAG	60 120 180 240 254
101	

- (2) INFORMATION FOR SEQ ID NO:29:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 211 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

GAATTCGGCC	TTCATGGCCT	ACGAGAAGGA	GTGGAAGAGT	AAGCAGACTA	GGAAAATACA	60
GTACAACCAT	CAGGCAGCAT	TACAGACCCA	CTTAAGGTTT	GTGGCCATGT	GTGGTTGTGT	120
GGTTTTTTTT	CTGGCCATGC	TCAGTTACAT	AGGGGCAAGT	GCAAAAAAAA	CCCCAGAGTT	180
TGTTTTAACT	AGAGCTCTGG	TTTTGCCAAA	C			211

- (2) INFORMATION FOR SEQ ID NO:30:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 521 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

GAATTCGGCC	TTCATGGCCT	AGGATCAGGT	TCGTCCTTTA	GTGTTGTGTA	TGGTTATCAT	60
TTGTTTTGAG	GTTAGTTTGA	TTAGTCATTG	TTGGGTGGTG	ATTAGTCGGT	TGTTGATGAG	120
ATATTTGGAG	GTGGGGATCA	ATATAGGGGG	AAATAGAATG	ATCAGTACTG	CGGCGGGTAG	180
GCCTAGGATT	GTGGGGGCAA	TGAATGAAGC	GAACAGATTT	TCGTTCATTT	TGGTTCTCAG	240
GGTTTGTTAT	AATTTTTTAT	TTTTATGGGC	TTTGGTGAGG	GAAGTAGGTG	GTGGAGCACA	300
GGCACTGCAG	GTCAATGGAG	GTGGAGTACA	GGGACTACAG	GTCAATGGAG	GTGGAGCACA	360
GGGACTAAAG	GTCAATGGAG	GTGGGGCACA	GGGACTACAC	GTCAGTGGAG	GTGGAGTCAC	420
AGGGACTACA	GGTCACTGGA	GGTGGAGCAC	AGAGACTACA	GGTCAGTGGA	GGTGGGGCAC	480
AGAGACTACA	GGTCAGTGGA	GGTGGAGCAC	AGAGACCACA	G		521

- (2) INFORMATION FOR SEQ ID NO:31:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 238 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

GAATTCGGCC TTC	ATGGCCT AAAATTTCC	CTAAGTACTG	ATTTAGCTGC	ATTGTATAAG	60
TATATGCTTC CAT	TTTCATT CATTTCCAA	TATTTTCTAA	TTTCCTTTGC	AATTTTTTTT	120
TCAGGAATTC GGG	CCTTGCT GTGTTGCCC	A GGCTGGAGAG	CAGTGCCACT	ATCACAGCTC	180
ACTATAAACT CAA	ACTCCTG GGCTCAAGC	A ACCCTCCCAC	CTCCCAACTC	CCCTCGAC	238

- (2) INFORMATION FOR SEQ ID NO:32:
 - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:	
GGTTTCTTAA AAAAAAAAA AAAAGGAATT TGATCCAGAG CAATTTTCT CAATTAAAAT TTGTGATTAC ATTTCTGAGT TTCCATGGCA GAGTTGTGAG TGGGGCTGTG ATATAATTTA ACTTCTCCTA AATTGCTGAC ACCGATAACC CTATAAATTA ACAGATGGCG GAGGGAAATC TCCTGGCTTC TTCCTGGCTA GTTTTTTTTA ATGGTCTGAT TTTTGTAATA GGGGTTTTGA GTCCCAGCCG ACTCGAG	60 120 180 240 257
(2) INFORMATION FOR SEQ ID NO:33:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
GAATTCGGCC TTCATGGCCT AAAGACTTAC GTTATATTTT CATATACTCC TTCCCACTCT TAGTGTGTTG TCAATATACA TTTTGTTTTA CATGTAAAAA CACCACAGTA TATTGTTCTT AATTTTGCTT TTAATAGTAA ACTGTCTTAT AACAAATTAT GAAAATGGAA AAAAACATGT CTTTCTTATT TGCCCTCATA TTTATCCATT TAGGCACTCT TCCTTTTTCC CTTTCATTCC AGGTTCTCGA G	60 120 180 240 251
(2) INFORMATION FOR SEQ ID NO:34:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
GAATTCGGCC TTCATGGCCT ACTAACATTT ATGAAAATTA TTTGTAAATA AAATAAGAGG CATTGAGATT AAAATTGGAG ATAAAGTTGC TGATGTGTTG TTTTCCTGAA GTATTTTTT TCTTAATTCT GATCTTGTT TCCCAATACA ATCACACTCA CACCCTTGCA GTTCAGTTTC CTGACGACTC TCTAGTGTGC CAGATCTGT TTTCTATGTC AGTGATCTGT TCCCCATCTC TCGAG	60 120 180 240 245
(2) INFORMATION FOR SEQ ID NO:35:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

GAATTCGCTT	CATGGCCTAC	CGAGAAATGG	GTGTGATTGC	TGCCATGAGA	GATGGTTTTG	60
GTTTCATCAA	GTGTGTGGAT	CGTGATGTTC	GTATGTTCTT	CCACTTCAGT	GAAATTCTGG	120
ATGGGAACCA	GCTCCATATT	GCAGATGAAG	TAGAGTTTAC	TGTGGTTCCT	GATATGCTCT	180
CTGCTCAAAG	AAATCATGCT	ATTAGGATTA	AAAAACTTCC	CAAGGGCACG	GTTTCATTTC	240
ATTCCCATTC	AGATCACCGT	TTTCTGGGCA	CGGTAGAAAA	AGAAGCCACT	TTTTCCAATC	300
CTAAAACCAC	TAGCCCAAAT	AAAGGCAAAG	AGAAGGAGGC	TGAGGATGGC	ATTATTGCTT	360
ATGATGACTG	TGGGGGTCTC	GAG				383

- (2) INFORMATION FOR SEQ ID NO:36:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 133 base pairs
 - (B) T"PE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

GAATTCGGCC	TTCATGGCCT	ACTGCCGCTC	CTGGTGCTGC	TTGTGTGCTC	GTTTGGTGCG	60
GACCTGGTAC	CTCTTTTGTG	AAGCGGCAGC	TGAGGAGACT	CCGGCGCTCG	CCATGGCCGA	120
CGAAAAGCTC	GAG					133

- (2) INFORMATION FOR SEQ ID NO:37:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 276 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

GAATTCGGCC	TTCATGGCCT	AAGGTAGTCT	AGGCTCATCT	TCATGAGGGA	ACTGAGGTCT	60
TGGGGGGTGG	GGGTTACCCA	AATAGGTTCA	CAGAAGAACC	AGAAATAAAA	CCTGCCTTTC	120
TAGACTGTAA	GTCTTGTGAT	TGTCATCTAA	ATGGTTGTCT	CTATACAGCA	ACTCATCTCT	180
AGAACTGAAA	ATAAGTTTAA	ATCCCTCCTC	CATCCCCAAT	AATTCAAGCT	GCATTTCAGA	240
GAAAACCAGG	ACTTTGGAAT	CAGACAGCAA	CTCGAG	•		276

- (2) INFORMATION FOR SEQ ID NO:38:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 336 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

TTATCAAGGA TCTACTCACT CAGTTTCCCT AAAGCTCTCT CTCCAGATCG GATTCAACCG CACATCATGA CAGATGTTCC GGCTACATTT ACCCAGGCTG AGTGTAATGG GGATAAACCA 1 CCTGAAAAACG GTCAACAAAC AATCACTAAA ATCAGTGAGG AATTGACTGA TGTGGACAGC CCCCTGCCAC ACTACAGGGT AGAACCCAGT CTGGAAGGTG CACTCACCAA AGGAAGTCAG 3	60 120 180 240 300 36
(2) INFORMATION FOR SEQ ID NO:39:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 385 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:	
GCAGGATGTT GATATGGTGT TTGCGTCATT CATCCGCAAG GCATCTGATG TCCATGAAGT TAGGAAGGTC CTGGGAGAGA AGGGAAAGAA CATCAAGATT ATCAGCAAAA TCGAGAATCA 1 TGAGGGGGTT CGGAGGTTTG ATGAAATCCT GGAGGCCAGT GATGGGATCA TGGTGGCTCG 1 TGGTGATCTA GGCATTGAGA TTCCTGCAGA GAAGGTCTTC CTTGCTCAGA AGATGATGAT 1 TGGACGGTGC AACCGAGCTG GGAAGCCTGT CATCTGTGCT ACTCAGATGC TGGAGAGCAT 3	60 20 80 40 00 60 85
(2) INFORMATION FOR SEQ ID NO:40:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 245 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:	
GGTTTTCTTA TCTATAAATA CTGATTAAAA AAAAAAGTAC ACTGTCTGCC TTATAAGCTA 1 AAATGAGTGA ATACAGGCAA AATGCCTTAC ATTTTACTTT ACATTTACTA AGCACCCAGA 1 AAATGTTAAC TATGATGACA ATTATGATGA TGATGATATT GATATTTTCA AGGAGGGCGC 2	60 20 80 240 245
(2) INFORMATION FOR SEQ ID NO:41:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 247 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:	

60 120

GAATTCGGCC TTCATGGCCT AAATAAAGAT GATTTTTGTG CTTAGCAGTT TAAGGTATAT GGCTGCATAT GCAAAACTCT TTCCCAATTC AGTCGCTACT TTTACTTCTG CCCTTTCTAT

CCATCGTCTT CATTTTGTGT GTACAGTGCT GTGTGTAAGC TTATCAGTGT GTTTTTTAT TTGTATCAGT CATGAAAGTC CTGTTAGGTA TCCAGAGTTC TATTTATCTA GCTGTACAGA

180 240 247

(2) INFORMATION FOR SEQ ID NO:42:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 106 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:	
GGATATGGTA ACTGAGAACC ATTTTCTAGT TGAGATAACT CATGTACAGG GGGGGTCACA TGACTCAACA ACACACAGAG CACAGAAGAG AACCAACAAT CTCGAG	60 106
(2) INFORMATION FOR SEQ ID NO:43:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 237 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:	
TTGGCATCTT AAGTGGAAAT GTTCATGCAG TTTTGCTGGA TCTTCGCTAT GGCAGTAAAA	60 120 180 237
(2) INFORMATION FOR SEQ ID NO:44:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 476 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xí) SEQUENCE DESCRIPTION: SEQ ID NO:44:	
GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGGCC TTCATGGCCT AGGGAGTNGG TGTGTCTGTG CATTTATTTG GATCATGGAA GGTTGTAGAT GTGTATTTCT AACTGTAGAT AATGGAGGAC ACATATTTGG GGAGTTTTGA GAGGATGTGT ATGTGTGTG	60 120 180 240 300 360 420 476

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 358 base pairs

 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

GAATTCGGCC	TTCATGGCCT	AGGCAAACTC	TGCTGGACTT	AACTTCATCA	ATGTAGTGGG	60
CTCTGTTTGT	GGGGCCCAGG	CTTTGATGAG	TGGTTCAAAC	CCCATGCTGG	GCTGTAACAC	120
TGGTGCCATA	ACTCCTGCAG	GAATAAACCT	GAGCGGCCTT	CTACCCTCAG	GAGGTCTGCT	180
ACCAAATGCA	CTGCCCAGTG	CAATGCAGGC	AGCTTCTCAA	GCAGGTGTTC	CATTTGGTTT	240
AAAAAATACT	TCAAGTCTCA	GGCCCTTAAA	TCTACTCCAG	CTTCCAGGTG	GTTCACTTAT	300
TTTTAACACT	CTGCAGCAGC	AGCAACAGCA	GCTCTCCCAG	TTTACACCAC	AACTCGAG	358

- (2) INFORMATION FOR SEQ ID NO:46:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 353 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

GAATTCGGCC	TTCATGGCCT	AATCATTTTG	ACTTTCAGTG	CTTTCAATGA	CCAGTGGCCT	60
CCAGGGATAA	AGCAACTGCT	TGGTTTGCAG	GGCGTCCTCT	GCGCTGCTGA	GCCATCAGCC	120
TCCAATACGC	CAATGCCCAT	AGATGCTAGT	TACAGCCCTG	CTTCCTCCTA	CATAGGGTTC	180
TGTCATCACT	GAGTCTCACC	ATTTCCCTCT	CCCCAGTGTC	TTTATTATGT	GACACACACA	240
CACGGCACTA	TGTTTAAAAA	AGCGTGCTCA	CTGGCAACCT	CTTGGCGTTG	TGTGTTCATT	300
CTGTGTTTTG	TATTGGTGGT	ATCTTGGGGT	CGACCGAAAG	AGTCAACCTC	GAG	353

- (2) INFORMATION FOR SEQ ID NO:47:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 456 base pairs
 - (B). TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

GAATTCGGCC	TTCATGGCCT	AGGGAGCTAC	CAGATGCTGA	AGAAAGGGCC	CTGGCAGACT	60
GGGTTCAAAC	TCAGCCATTG	TCAGCTTGGT	AACCTTGACC	AAGTGTCTTC	CCCTCTGTGA	120
GCCTCAGTTT	TCTCAATAGT	AAGAGGGGAT	AACACACTTA	CCTCTCATAG	CTGTGGACAT	180
GGAGGTGAAA	GTGCCGCATA	CACTGTAAAG	TGTTATATAC	GTGTAAGAGA	AAAAATCGGG	240
CCAGAGGCTG	GGCTTGTGTT	AATTGATTCA	GGAAATTCAC	CAGAGGCCCC	CTAGATGCAA	300
CGTCCTTTGG	GTGTCTGGCA	GTGGGCACAA	AGATGAACAA	AACAGTGCCC	CACCCTCACC	360
CCGTCAACCG	TCAGTGCAGC	AGTGGGCTGG	GTGCTTGCGT	CCCACAGTGA	GGAAGGCAGA	420
AGGGGTCCCT	GCCCTCAAAG	GAGGACGATA	CTCGAG			456

(2) INFORMATION FOR SEQ ID NO:48:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 509 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:

GAATTCGGCC	TTCATGGCCT	AGCTGCCCCG	CAGCACTTAC	CGGAGCGACC	ATGAGGGTGA	60
CGATTTGAAG	CACACACAGG	CTTCCCGCCA	CCTCCTTTAA	ACCGCCGCTG	GCTTGCCAGG	120
GACAGACGGC	GCGGTTGGCT	CCCCAAAATT	CCGACTGATA	CGCGCCTCGG	CGAGCGAAAG	180
CAAACGCGGG	ATACTCTCGC	GTTCCTGATT	GGCTGCAGTT	GGAATTGATC	ACACCTTTTC	240
AGTTGTACTT	CAATCCTGAA	TTAATCTTTA	AACACTTTCA	AATATGGAGA	TTAATCACCA	300
ACTTCTTATT	TTTTGGGCCA	GTTGGATTCA	ATTTTTTATT	TAACATGATT	TTTCTATATC	360
GTTACTGTCG	AATGCTAGAA	GAAGGCTCTT	TCCGAGGTCG	GACAGCAGAC	TTTGTATTTA	420
TGTTCCTTTT	TGGTGGATTC	TTAATGACCC	TTTTTGGTCT	GTTTGTGAGC	TTAGTTTTCT	480
${\tt TGGGCCAGGC}$	CTTTACAATA	ATGCTCGAG				509

- (2) INFORMATION FOR SEQ ID NO:49:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 467 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:

GAATTCGGCC	TTCATGGCCT	AAAGCAAGTG	ATTTTCTTTT	TTTTAAAGAC	AGGGTCTCAC	60
TTGGTCACCC	AGGCTGGAGT	ACAGTGACAT	CATCACGGCT	CACTGCAACC	TTCGCCTCTT	120
GGGCTCAAGT	GATTCCCCCA	TCCCCCACCC	CCCTTCTCAC	CCCCAGATTG	GACTATAGGC	180
GTGTACCACC	ACGCCTGGCA	GAGACCGGGT	TTTGCCGTTG	CCCAAGCTGA	TCTCGAACTC	240
CTGAGCTCAA	GCGATCTGCC	CGTCTCAGCC	TCCCCTAAGC	AAGCATTTTT	AAGTTTCTAT	300
GCTGTTTAAT	TTTTTTTAAC	TGATTAATTT	ATTTGCATTG	TGTGGTCATG	GAATATGTTT	360
TTATGATATT	GGTTGTTTGA	GATTTGGTGA	GTCTTTCTTT	GTAACCTAGT	TAAACCATTC	420
CATATCTTTT	TAAAAGGATG	TATATTCCTT	ATCTGTTAGG	GCTCGAG		467

- (2) INFORMATION FOR SEQ ID NO:50:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 168 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:

GAATTCGGCC	TTCATGGCAG	AGTGGAAGGG	GTTGTAAATA	TTAGGAGAGA	GATAATTCTT	60
AGTGCATTTC	TCTGAGGATG	AAGCATGAGA	TGAATCCATG	GCACGAATGG	AACAGCTGGG	120
GAAAGCAGGT	CAGAATGGAT	ATGGATATAA	ATACTGTGAG	TTCTCGAG		168

(2) INFORMATION FOR SEQ ID NO:51:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 228 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:	
GAAGTAAATT ATTACGATTT CCTTAGGTGG TTAATAAATT ACCATTATTT TCTCT ACAGATCACG AAATGATAAG TAACTTACCG AAAGTTACAT TATTTAAGTT AATCA TTATTGATTG CCAGACTTTT TTCTAGGCTT AAGCAAATGT TGGAAAATAC TTCTC TTTCAAAAAT GTTATTTCTA CTTGTCAGTG CTGCAGGAGT CTCTCGAG	AATGT 120
(2) INFORMATION FOR SEQ ID NO:52:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 247 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:	
GCAGAGTCAA TAGATACTTT AAATTGAAGT AAAGAATTAA AAAAGGAAGT GGATA GGTATTAGTT TAGCTAGAAA TACAAAGAAA CTTGACTTCT AGGGCAGTAC AAATT CTTCCACAAA CAAACAGTTG AGAGTATGTT TATCTTCTTA AAATGTGTGG GTGCC ACCACTTCAC CTGCTCCTCA CTGGTGCTTT GTCCCCTCCC TACTACCATT CCTGT TCTCGAG	CAAGC 120 CTTCCC 180
(2) INFORMATION FOR SEQ ID NO:53:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 235 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:	
GGCCAAAACA AAGCTTATAA AGGTTCCTGC TCCCAACGTA ATTACCTCCA ATCGC AAAGACATCC GCATTGCTTA CAGCACATCC TAGCCTCATG CTTGCCCAAG GATGC AAATGAACTA TTTCCAGAGC GACTTATTCA GGCATTCTGT GGAGCCTCCG TTGCC CATCACCGGA GCTTTTGTAA TTGCAGCTAT GCCATTGGCC TCCGGCAACC TCGAC	GACTCG 120 CCTGTC 180
(2) INFORMATION FOR SEQ ID NO:54:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 231 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(ii) MOLECULE TYPE: GDNA

(vi)	SECTIONS	DESCRIPTION:	SEO.	TD	NO:54:
(22)	SECUENCE	DESCRIPTION:	250	ıν	NO.JT.

GAATTCGCCT	TCGTGGCCTA	AAAAGAAAAA	ATCTAAGGTA	GATTGTGCCT	TTTGTGCCTT	60
TCCTCTGCTC	AAGACCTTTC	AGTGGCTTCC	CACTTCACTC	AGTAAAAGGC	AAAAAGTCCT	120
TTTAATAACC	TACAAGGCAT	TATGTTACCC	ACATTGTCCC	TGCTCCCCTA	CATTGTACTC	180
AAGTCTATGA	TCTTTTTACC	ATTCCTTGTA	CAAAGGATTT	TCACTGGCTG	G	231

(2) INFORMATION FOR SEQ ID NO:55:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 330 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:

GAATTCGGCC	TTCATGGCCT	AGAAATATTT	TCCTACAAGA	GTACTGAATT	TCAGGAAATG	60
GGATAGAGCT	TCTAACCAGT	GTATTCCGTC	AAGTAAGATA	ATAACAGCTG	ACCTGCCAAC	120
AGCATTACAG	GGAGATTCTT	TGCTCAGCTA	ACACATTTCT	GTTTTTCAAA	ATTGATGCTT	180
AATTGTAGCT	GTTATTCTAA	TTTGTGACAT	GGAACTAACT	CATGCTTCAA	TCCTTGATAG	240
AGCAAAACTC	AGAACAGGTT	ATGTAAAAAT	ATAGTCTGGC	TTTAGAATTT	GTTAATTCAC	300
CTGCTTTGCC	ACAGAAAATG	GAGACTCGAG				330

(2) INFORMATION FOR SEQ ID NO:56:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 230 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:

GAATTCTAGA CCTGCCTCGA	GATCTGAACT	ATAATCTTTT	CCATTCTATC	TAGCTCCCAT	60
CCTAAGTCCT CTCCTCCTA	CGTGGAACTC	TCCTAAAATC	TTCTCCTTAT	ACTAGGGTTC	120
GAGACATGAG GCTGTCTTT	TGGGCCTTTT	GCGTTGTCAC	AGTCCCAGAC	CACGGAACAT	180
TCTCTCTTCC CCAGGACAG	ACATTCTCTC	TTCCCCAGCG	CTCCCTCGAG		230

- (2) INFORMATION FOR SEQ ID NO:57:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 416 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

GAATTCGGCC	TTCATGGCCT	AAAGGGAAAG	TGGGAATATA	CACAATGCAN	ACACTAGCCA	60
CATGCAATCA	TGGGAGAACA	GAGCCTACTT	AAAAATCANA	CCCAAGCTTT	GCTTCAGAAA	120
TAACTCCACT	TCAACCCATT	CCATCATTA	CGCATGACTT	TGCAAACGTT	CTCTGGAGGG	180

GGAAGAGGAT CAACCTTCTC TCATACCGCA CAGCAAGGGA ACCAAAGTAA TATAAATCAC TCTTAAAAAAT GTCATGTAC TTTAAGAATA AGCCATACTG CTGGCACCTA GAATATTTT GTGGGTCCCC ATCTCTGGCT TTTCTTCTTC AAATGGCCCC CAGGCTAAGA GGCAGCTGCT CACATCCCTG CAACAAACAT GTTCTTTCCT TTCTGCATAG CCTTCCATTT CTGGAG	240 300 360 416
(2) INFORMATION FOR SEQ ID NO:58:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 289 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:	
GAATTCGGCT TCATGGCCTA CTAGACCTGC TCAGTCGTTC CTAATGAATA AAAATCAAGT GCCAAAGCTT CAGCCCCAGA TAACTATGAT TCCTCCTAGT GCACAACCAC CACGCACTCA AACACCACCT CTGGGACAGA CACCTCAGCT TGGTCTCAAA ACTAATCCAC CACTTATCCA GGAAAAGCCT GCCAAGACCA GCAAAAAGCC ACCACCGTCA AAGGAAGAAC TCCTTAAACT AACTGAAACT GTTGTGACTG AATATCTAAA TAGTGGAAAG TCACTCGAG	60 120 180 240 289
(2) INFORMATION FOR SEQ ID NO:59:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:	
GAATTCGGCC TTCATGGCCT AATTTGAGGC CTGGGTGGAA CTGACAGGTG GAGTTTGAAG GCACATCTGC TAGCTCACAT AGGAAACAGA ATCTCCCAGG GAAAAGACAT AGGACCTCTG ACTCTAACTG AGGTTCTGGA TTATTATGAG AGATTTTCAG AAATGGTCTA ATGGTGTTGG CTTGCTCCAT ACCATAGATT TTAAGAGACA GTAGAGCTTC TGCGATGAGA TTCCCCCATA AAATAATTAT GGATCTGCAC TGGCAAGCTG GTCTTGGCTC CAAAGACCAA GAGTTGGTTT GTGGTGCTGA TTCTGAACCC TTGCGATGCA ACTGTCTGGT AGTAAAATGG CTTTGTATGG TAAGAAAGCT TTAATCCTCG AG	60 120 180 240 300 360 382
(2) INFORMATION FOR SEQ ID NO:60:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 196 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	
AAAAAAAAC CAAACCCTAT TATTTCATTG ACAGATTGTC TTAGAGTTGA TAGCATTTAA TAATTGAGTA AGTACAGTCC TTCCTTGTTC CCAACGTGCC CTATTTTTTC TTTCTCTCT ACTTTTGCAT ATGCATTTTC CCTCTTTCTT GTTTCTTGGT GAATTCCTAA ACCTTTTTT TCAAAATCAC CTCGAG	60 120 180 196

- (2) INFORMATION FOR SEQ ID NO:61:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 281 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

CC TTCATGGCCT	AACCACATTT	TTCTAATTAG	TGTTCTAGAC	TGGCTAGATA	60
AT GAATCAACAG	TCTTTAAGCA	CATATACAGG	TATGATAACT	CTGTAGTTAA	120
CT TGTGCTATGT	ATTATTTTGC	TGCGTAACTC	AGAATTCAGG	AAGCTACCCA	180
GT CTTTAGCTGT	TTTATTTCAG	TAACAAGTTT	ATGCAGAACC	TTCCATATCT	240
AC CAGAGCATTC	ATAGAACCAG	AAACTCTCGA	G		281
	AT GAATCAACAG CT TGTGCTATGT GT CTTTAGCTGT	AT GAATCAACAG TCTTTAAGCA CT TGTGCTATGT ATTATTTTGC GT CTTTAGCTGT TTTATTTCAG	AT GAATCAACAG TCTTTAAGCA CATATACAGG CT TGTGCTATGT ATTATTTTGC TGCGTAACTC GT CTTTAGCTGT TTTATTTCAG TAACAAGTTT	AT GAATCAACAG TCTTTAAGCA CATATACAGG TATGATAACT CT TGTGCTATGT ATTATTTTGC TGCGTAACTC AGAATTCAGG	CC TTCATGGCCT AACCACATTT TTCTAATTAG TGTTCTAGAC TGGCTAGATA AT GAATCAACAG TCTTTAAGCA CATATACAGG TATGATAACT CTGTAGTTAA CT TGTGCTATGT ATTATTTGC TGCGTAACTC AGAATTCAGG AAGCTACCCA CTCAGAGCAGT TTTATTTCAG TAACAAGTTT ATGCAGAACC TTCCATATCT AC CAGAGCATTC ATAGAACCAG AAACTCTCGA G

- (2) INFORMATION FOR SEQ ID NO:62:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 400 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:

GAATTCGGCC TTCATGGCCT AAAAGATTTG AGCATTTCAA AATTTTAAAC ATAAAAAGCAT	60
AAACGTAGAT AAAATGAAGG TGTACTATGA TATCTTCAGT TTTATCAGAA ATGATGTAAA	120
AATTACAACC TCTTTAAAAA GTAGTGTTAA TCATTAAGTT AGAAAATATA TAGCTGGGCA	180
TGGTGGCAGA TGCCTGTAAT CCCAGCTACA TGGGAAGGTG AGGTGGGAGA ATCGCTTGAA	240
CCCAGGCAGT GGAGGATGCA GTGAGCCAAG ATCATGCCAC TGCACCCCAG CCTGGGTGAC	300
AGAACAAGAC TCCATNTCAA GGAAAAAAAA AAAGAAAAAT ATATATATGA ACTTCAGAAT	360
CTGAGGTCAT ATATAGACAG GTCTTCCCCC CGTCCTCGAG	400

- (2) INFORMATION FOR SEQ ID NO:63:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 297 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:

GAAACCATAG	TGGCAGATTT	GTAGCAAAAA	GAATCTTTGT	AACCTTCCCT	TTAGATGTCC	60
TGTGTTATGG	CTTGGTTTTT	CTCAAAGATC	ATAGATTGCA	GTGTTTATCT	CAACTCAGTA	120
TTTCCTTTGA	AAATTGAACT	TTTCTCTATA	TTTTCCTTTC	CCCCATGCAA	ACTTTTTGAT	180
TGTTTTTCTG	AAATCATAAT	TCATTTGACT	TACCAGTTAA	TATTGATACA	GGTCTTGCAT	240
GTTATGAAGT	GCATTGTGTA	CATTATCTTG	TTTAATTTTC	ACAACACTCT	TCTCGAG	297

- (2) INFORMATION FOR SEQ ID NO:64:
 - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 361 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:	
GGTCGCAGAA GAGTGTCAGA ACAATCAGTT AAAGAAGCTC AAAGAAATCT GTGAGAAAGA AAAGAAAGAA TTAAAGAAGA AAATGGATAA AAAGAGGCAG GAGAAGATAA CAGAAGCTAA ATCCAAAGAC AAAAGTCAGA TGGAAGAGGA GAAGACAGAG ATGATCCGGT CATATATCCA GGAAGTGGTG CAGTATATCA AGAGGCTAGA AGAACCGCAA AGTAAACGGC AAGAAAAAACT CGTAGAGAAA CACAAGGAAA TACGTCAGCA GATCCTGGAT GAAAAGCCCA AGGGGGAAGG TTCCTCCTCA TTCTTGTCGG AAACTTGCCA TGAGGATCCC TCTGTTTCCC CCAAACTCGA G	60 120 180 240 300 360 361
(2) INFORMATION FOR SEQ ID NO:65:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 393 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:	
GAATTCGGCC TTCATGGCCT ACTGGGGGAA GAAGGCTGCT TTATGTTTAT TTTTCAAGAC TTTAAAAATA TTTTTTGGTT GTATTGCACT AGGAAATCTC TCCCACCTCT CCCTTTTCTC TTTCTTTCCC TATACAAAAT AAAAGGCCCA CCATAGAGAC TAGGCGGCCG AAAGACTAGG AGGCTGAGG AAAAGAAATA GGTCTCTGGA GGTGGAACTA AAACTGTGCA GCTGCCTCTT CCTGGCGGTG GATGCTGCTT TGGGAGGGCC AGGGAGGCTG CAGGGGGACA GTGTTGGGAT TGTCAAGGAA AAAGGGGTAG GAAGGAAGGT GGAGGATTG ATCTAGTACC AGGGAGAATA TTCCACTGAA CTGTGATTCT ATGCGGCCTC GAG	60 120 180 240 300 360 393
(2) INFORMATION FOR SEQ ID NO:66:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:	
GAATTCGGCC TTCATGGCCT AATTTGTTAT TGCTAGAAAA TACACAGTTT TGAGATTTTT GGGCATAATT GGCCTTAGTG TGTCACTTCT GCATTAAAAT ATAGGTTAAT AATCAGATGA AAGCAGCCAA TAACCTATGG CTTCTGTACT TTCTGGTGAA AGTTTTGTATA ATCTTTTAA TTTTGTATTTT TCTGCTTATA AATTTGTCCT TAAATCACTC CCCTCCTTCC CGCCCCCCGACTCCTCCTCCC CCCCCCGACC CTCCTTCCCC CCCCCGGACC CCCCCGATCC TCGAG	60 120 180 240 300 335
(i) SEQUENCE CHARACTERISTICS:	

- (A) LENGTH: 235 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

GGTGACATAT	TTATTGCTTC	TGTTTTCCAA	CTACATCACT	TCAACTAGAA	GTAAAGCTAT	60
GATTTTCCTG	ACTTCACATA	GGAGGCAAAT	TTAGAGAAAG	TTGTAAAGAT	TTCTATGTTT	120
TGGGTTTTTT	TTTTCCCTTT	TTTTTTTAA	GAGTATAAGG	TTTACACAAT	CATTCTCATA	180
ATGTGACGCA	AGCCAGCAAG	GCCAAAAATG	CTAGAGAAAA	TAACGGGATC	TCGAG	235

- (2) INFORMATION FOR SEQ ID NO:68:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 257 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:

GAATTCGGCC	TTCATGGCCT	ACCACAATCT	GTTTGCTTTT	CCTCTTTAGA	TTCCAAAAAT	60
AACACCCCAA	AGGCTACCTT	TTCAAATATT	CTACAACATC	TGCAAAAATC	TTTAGTACTC	120
TGTCCTTGGA	GTCAGTCAAG	AAATTCCACC	CCAGAAGTGT	AAAAACCAAT	CAATAATATA	180
TGACACTGAT	TTTCTCTAAA	TTATTATTTT	TCTTATGGTT	GAGTCTCCTG	CCAACTTTAT	240
GTTTCCCAAT	CGGCTCG					257

- (2) INFORMATION FOR SEQ ID NO:69:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 261 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:

GAATTCGGCC	TTCATGGCCT	AGCTGGGCAT	GGTGATGCAC	GCCTGTAATT	CTAGCTACTC	60
AGGTGGGGGG	TTAAAGGTGA	GGCAAGGTCA	GCGGTGAAGT	GCAGCTCAGA	GGGAGGGGTC	120
AAACATAAAC	CAGAACTTAT	AGGTCTAGAG	GTAAAATGGG	ATTCATGGGG	GGCAGAGGTC	180
AAAGGTGAAG	CAGAAGTCAG	GGGTGAAGGA	AGGTCTGCAA	AGTTAAAGGT	GCGGTTTCCA	240
GAGTCAGAAG	GGGTGCTCGA	G				261

- (2) INFORMATION FOR SEQ ID NO:70:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 279 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:

GAATTCGGCC TTCATGGCCT AGATTGAATT TTTAACACAG TCCTCTCAGA AACTGACTAA AACAGGTTTT AAAATTAGCA AATATTAAGA ACATACGAGT AAAAGTCAGT TTATTTTAGA TAAGTAGGGA TTTAAATTCA ACAAAAATAA ACACATTTTA AACTCCTATA ATACATTTAT TTAAAATAAA TATATTTTTG CCAAAAGAAG TGTAAGTTCA AAGAGTTAAC ATACAGATTA TATCCTATGA GATATAATAA TATTAGAAAC TGGCTCGAG	60 120 180 240 279
(2) INFORMATION FOR SEQ ID NO:71: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 255 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:	
GAATTCGGCC TTCATGGCCT AGTTACATTT ATAATCAGTG AGGAAAATAT AAACTATACA ATAAATGAAA GGGTCATTGG CCAATTGTTT GGAGGGAAAA AATACACCAT GTTCTAAAAT AAAATGAAAC CATAGCCTTA CGAGAAGAAA ATATAAAGAA AAACTTGTAT AGTCTTGGGA GGGGGGATTC TCGAG	60 120 180 240 255
(2) INFORMATION FOR SEQ ID NO:72:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 138 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:	
GCGATTGAAT TCTAGACCTG CCTCGAGATC GTCTTTTCTA CCTGGATGAG AGCTCTACCA CTTCTTTCCT TTTGCACACT CATCTCATTC TATGCACTCT TGGGCTGTAA CTGTCATTTC TTTTCCTGTA CACTCGAG	60 120 138
(2) INFORMATION FOR SEQ ID NO:73:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 208 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:	
GAATTCGGCC TTCATGGCCT ATCACATTGC ATTAAATCTG TAGATTACAT TGAGCATTAT GGACATCTTC AAAATATTTC AAATTTTGAA CAGGAGCATG CTGAAGAGTG TGTTGTTTAA TTTCTATGTA TTTGTACATT TTTTTTCTCT ATCTTATACT GCCGAGACCA GCTCAGTCGG GGAGACCCTA ACCCAACGGC AGCTCGAG	60 120 180 208

121	INFORMATION	FOR	SEO	TD	NO:74:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 268 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

GAATTCGGCC	TTCATGGCCT	ACATGAAACT	GTTAGTCACT	TCATTTCTGT	TTCTTCCCTG	60
TTGCAACAGC	CCATCTTCGT	GGGAAGAACC	AAGCTTTAGG	CTTGGCTCTG	AACAGCCACA	120
AAGTGACTTG	GCTGAGGTCC	TGCCATTTCG	CTCATGCTCA	GCAGGGGGCA	GCAGACCAGG	180
GCAGTTCAGA	GTATGGGGTC	AAACCCAGGT	CCCTGTCCCC	ACTCCACCTG	TGGATTTACC	240
CTGGATTGGG	CAAGCCCCAT	TACTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:75:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:

GAATTCGGCC	TTCATGGCCT	ACGTGAACAA	GACCCTCCCA	AACCTTCAGG	TAGTCAACCA	60
CCAGCAAGGC	CCCCACCACA	GACACATCCT	GAAGCTGCTG	CCGTCCATGG	AGGCCACTGG	120
GGGCGAGAAG	TCCAGCACGC	CCATCAAGGG	CCCCAAGAGG	GGACATCCTA	GACAGAACCT	180
ACACAAGCAT	TTTGACATCA	ATGAGCATTT	GCCCTGGATG	ATTGTGCTTT	TCCTGCTGCT	240
GGTGCTTGTG	GTGATTGTGG	TGTGCAGTAT	CCGGGAAAAG	CTCGAG		286

- (2) INFORMATION FOR SEQ ID NO:76:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 199 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:

GAATTCTAGA CCTGCCTCGA	AAATACACTG	TTACTATCTT	AATCTCAAGA	GTGTCATTAC	60
AGTGAGAATC TCATTTAAAA	GCATACCAGT	GAAATTAATA	GCAGTGCTTA	TCAAAGAACA	120
CTGAAATCTG TGAGAATCTT	TCTAGGAGCA	TTCTTTTCTT	CTTTTAGTTC	CAAGTTCCAG	180
GTAGGCCATG AAGGTCGAG					199

- (2) INFORMATION FOR SEQ ID NO:77:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 233 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

GATTGAATTC T	AGACCTGCC TCG	AGTTCCA CGTCCA	ATGGC CATCCTGAGC	ATGCTGCAGG	60
ACATGAATTT C	ATCAACAAC TAC	AAAATTG ACTGCC	CCGAC CCTGGCCCGG	TTCTGTTTGA	120
TGGTGAAGAA G	GCTACCGG GAT	CCCCCCT ACCACA	AACTG GATGCACGCC	TTTTCTGTCT	180
CCCACTTCTG C	PACCTGCTC TAT	AAGAACC TGGAGC	TCAC CAACTACCTC	GAG	233

- (2) INFORMATION FOR SEQ ID NO:78:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 276 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:

GAATTCGGCC	TTCATGGCCT	AAGAATAGAG	AAAACGTTTT	CAGCAGGCTT	CACAGAGAAA	60
CCAAACAATA	TTTAGAATAT	GACAGCATAT	GAAGAGTCTG	CTACTCTCCC	AGTGACCCAT	120
ACTTTCTCTT	CCATCTCTGC	TGGTTCTCTC	TACTACCGAT	TCTTTCTTGC	TGTTCTCCTT	180
CTCCATCACC	GTGACTTCTA	TTGCCTTACT	CTAATGTCTT	GTCTTCTGTG	TTACCCTTCT	240
GTGTGTTTTG	CATTCAGAAC	TCCCCCTCCG	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:79:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 273 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:

GAATTCGGCC TTCATGGCC	АААААААА Т	AAAAATCCCT	GGCTGAGAAC	TATTGGATTA	60
GGGCCTCCNG TACCTATCT	T TGAGGGGGAA	AGGATGCTAC	CATCAACTTT	TCTGAATGCC	120
AGGAATGCCT TTTAGTATA	G TTATTTCACT	TACTATTTTA	TAGCATATTT	TAATTGTATA	180
GTAAGCATTG TGTCTGTTT	T ATGGTAAGGA	AACTAAAATT	GAGAGATTAG	GCTGCTCGTG	240
GTGGCTTATA, CCTTGTAAT	C CCAAGCACTC	GAG			273

- (2) INFORMATION FOR SEQ ID NO:80:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 284 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

TTTTAGAAGA AAGTGATACG TTAATGACCT	TTCATGGCCT AGCGAAATGA CGAAATCTAG CCCTTTGAAA ATAACATTGT GGACAAATCC TTAAAAGTAA CATCAGACCC AAAGGTTGAG CAGAAAATTG TGAAATTGAG ATGAGTGTGG ATGATGATGA TATCAATAGT TCGAAAGTAA CTTCAGTGAT GTCCTAGAGG AAGGTGAACT AGATATGGAG AAGAGCCAAG TCAAGCATTA GCAGAAAGCA GCGAAGGGCT CGAG	60 120 180 240 284
(2) INFORMA	TION FOR SEQ ID NO:81:	
(i) :	SEQUENCE CHARACTERISTICS: (A) LENGTH: 284 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: gDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:81:	
AGGGCCAGAG GGAGCCAGGA TTCTGGCAAG	GGAAAACCAT CACAAGATGG AGTGCCAGCA AAAACTGATC AAGGAGCTGG GGAAACCCAG AGAGTGGCTT TGACCCACCT TACGCTGGAC CTAGAAGAAA GCTGCAGGCA CAAAGCAGCC AGATCCATGA CCTGGAGAGC CACAGCACCG AGAGCTGCAG GAGAGGGACC AGGAGGTGAA GTCTCAGCGA GAACAGATCG GAGGCAGAAA GAGCATCTGA CTCAGGATCT CGAG	60 120 180 240 284
(2) INFORMA	TION FOR SEQ ID NO:82:	
(i) :	SEQUENCE CHARACTERISTICS: (A) LENGTH: 311 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:82:	
TGAAGCACAG CTCTGCTCTT GCACATGATA	TTCATGGCCT ACTGTGTTGA CTTGGTGGCT TGCTTGATAA GAAGGTTTTA CAGATATCTC AGCTGCTAAT CCTGTAAGCC CTTTACCCAT TCTCGCTTTT GCCACATCAT GAATAGATTG GTATACTATT GTGGGATACT TCTAGTTTTA TAGGTTATGG TTAATGTTCC TTTCCATCTT CCTGGTTACT GATAATGTTC GATGGGTCTA TTCGATGGAA GAGTTTCAGC TTTGTTCGTG TTATTTCCCT G	60 120 180 240 300 311
(2) INFORMA	ATION FOR SEQ ID NO:83:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 329 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:83:	
GGTTCTACAT ATGTTGCTTT	TAAGAGAACC TCAGCATTGT GCACGATAAG AGAATGTGTC AGTATTTCAG TTTATCTGTA AAATGTGACT TTTTTTTTT TTTATCACAA CAGAAGTAAA GTACCTGGTG TCTTTTATTA AGAATTTACT CCCCCCATTT CTCACAGAGA GGAGTCATTG TCACAATAATA ATAGAAATGT TAGCAACCAG ATTCATGTAA	60 120 180 240

240

GGACTAAGTG GTCCTCATGA ATTGCATTAA GACTCTGTAC TGCTCATATT ACACTCCATC

300

CTCTCTGTAG TTTGCTGGGT ATTCTCGAG	329
(2) INFORMATION FOR SEQ ID NO:84:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:	
GAATTCGGCC TTCATGGCCT AGAAAGACAT CATTTAAGTN CTTTTAACAT TTAGTTTGTG GTCATAAGTT GACCTTTATG TGCTTTCTGA ATTGGAACTT AAAATAATCT TTAATTCATT ATTTTTCTA CTTCTAGGCC AGTTTTGAGT TTAATATTTA TAAAAGGTTA GATAGTTATA GATAGGATTA TTTTGCAGTT TTGAAACAAC ATACAAATTG TTATAGATTT CAGAGTAGGG CTAATCACAG GAAAGACAAA AGTCAGAATG CTTNAGGTAA GCCCCTTCTC ATTATATAAG ATCAAGCTCG AG	180 240
(2) INFORMATION FOR SEQ ID NO:85:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:	
GAATTCGGCC TTCATGGCCT AAAAACTTTC AACTTAGAAA AACTAGCAAG GGATTGTTCA CCCTTACCCC AGTGGTTGGT GCTAGAGAAA AAATGGAGGA TGTCTGTTCC ACGCAGACCC TGGTGGTTTA AAACACACAT ATAGATGGCT CTGGGACCAT CAAAATAGCA GCAGCAAAGA GCCACTCCAC CAGCCTCCCC TCCACTCCCC CAGGCCCAC ACAGCAGAAG GCTCCAGCCA CTTTTTGGAA GCCTGTAGCC TGGCTCCATC TTGCCCTGTG CCACAAATGC CCATGGCCCT CGAG	180
(2) INFORMATION FOR SEQ ID NO:86:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 291 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:	
GAATTTTGAA CACTAAAGCT TTGGATACAC AAATTTATAA CATCTTATTT ATAAATCAGT GGTGTACAGA AAGCAGAGAT CCCATAATCA AGCATGGCAA ACATGTTGAA GAATATGCTT ACAATGATTT CTGCTATAGA TTTCATAATG GGGATTCAGA GAAGTAGAGT TATGGTGCTG GTTCACTGCA TTGATTGGAT CAGGCGCTGG AAACTCTCCC TGATAGATTT TATTCTCACC TGTTGGGCAA TTTCCAGAAT ATTCTGCTGT AATTTTACAT GTGGGCTCGA G	120 180

(2)	INFORMATION	FOR	SEQ	ID	NO:87:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 423 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

GAATTCGGCC	TTCATGGCCT	AGCTAGAAAA	AAAAAAAAA	AAGCCCTTTT	CAGTTTGTGC	60
ACTGTGTATG	GTCCGTGTAG	ATTGATGCAG	ATTTTCTGAA	ATGAAATGTT	TGTTTAGACG	120
AGATCATACC	GGTAAAGCAG	GAATGACAAA	GCTTGCTTTT	CTGGTATGTT	CTAGGTGTAT	180
TGTGACTTTT	ACTGTTATAT	TAATTGCCAA	TATAAGTAAA	TATAGATTAT	ATATGTATAG	240
TGTTTCACAA	AGCTTAGACC	TTTACCTTCC	AGCCACCCCA	CAGTGCTTGA	TATTTCAGAG	300
TCAGTCATTG	GTTATACATG	TGTAGTTCCA	AAGCACATAA	GCTAGAAGAA	GAAATATTTC	360
TAGGAGCACT	ACCATCTGTT	TTCAACATGA	AATGCCACAC	ACATAGAACT	CCAACATCTC	420
GAG						423

(2) INFORMATION FOR SEQ ID NO:88:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 172 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

GCGATTGAAT TCTAGACCTG	CCTCGAGCTT	GGGGGGATTA	CAGTTCAACA	AGAGATTCAG	60
GCAGAGACAA ATATTCCAAA	CTATATCAGG	AATTAAGTAG	GCTTTGCTGT	CCTTTTGCAG	120
CTTTGAGTCA ACCCATATGA	GAGTGAATTC	TCCGATCCTG	TACATACTCG	AG	172

- (2) INFORMATION FOR SEQ ID NO:89:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 260 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:

CAATTCCCCCC	TTCATCCCCT	ACCCGTGTTC	TCCAGTATAC	CTTATAACAC	TTAGCCACTT	60
						120
CTCCCCACCC	TCCAGAAGGG	GTCCACGTTG	AATTCTGAAT	CATCTTGAAA	ATAAGATTCC	120
AACCACAAAA	AAAATTTAGC	CATTTCTTTA	CTAAAAAAAA	CCAAAAAACA	AATCTGTTTT	180
ATAATCACAG	ATTTTTAGAC	AAATTTCTTG	TATCAGGAAG	AAATACAAAT	TTTGTCATGT	240
TTCTCAAGCA	GTGTCTCGAG					260

- (2) INFORMATION FOR SEQ ID NO:90:
 - (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:

GAATTCGGCC	TTCATGGCCT	AAACTAAGAT	AAAAATAAAC	AGATAGGAGA	GCTGAATTCC	60
ATTTCAAGTC	CTCATGTATA	TGCTTACAAA	GTTCCAAATT	AAGCTTGGGA	CTGGTTCTTA	120
CATGGCAGGT	AATCCAAACC	TTTTCTATTT	ACTGAAGATT	TTCAGCTCTC	TTACAGAAAT	180
ACACAGGCTA	CCATTAAAAT	TGTAGGGATA	AATTTTAAAT	TGAATTTGAA	AATAAGAGCA	240
AGTACTCGAG						250

- (2) INFORMATION FOR SEQ ID NO:91:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 260 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

GAATTGAAAC	ACAGAGTTGT	TCTGCTGATA	GTTTTGGGGA	TACGTCCATC	TTTTTAAGGG	60
ATTGCTTTCA	TCTAATTCTG	GCAGGACCTC	ACCAAAAGAT	CCAGCCTCAT	ACCTACATCA	120
GACAAAATAT	CGCCGTTGTT	CCTTCTGTAC	TAAAGTATTG	${\tt TGTTTTGCTT}$	TGGAAACACC	180
CACTCACTTT	GCAATAGCCG	TGCAAGATGA	ATGCAGATTA	CACTGATCTT	ATGTGTTACA	240
AAATTGGAGA	AAGTCTCGAG					260

- (2) INFORMATION FOR SEQ ID NO:92:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 354 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

GAATTCGGCC	TTCATGGCCT	AATTTCATCT	TTTTTTCCTG	GTGCTGCATA	AACATATATT	60
AAATGTTGTT	ACTGATCCCT	AGTACTGTTG	ATTTGTGACC	CTTCTCCTGA	GGGAGACTAA	120
AGCTGCTTGA	GCTAAAGGCT	TTTGAGACAT	CCCATACGGT	TCCCTGAACA	AAGTTTTCTC	180
TCCTGACCTC	AGTTCTCTTG	ATGACCTTGG	CAAGTGGGCC	CGACTAGTTG	GACACTAATG	240
AGGCATCGTA	ACATGCCGGC	CCCATCCTGT	CCATTCTGTT	CTCTTTGCCA	TCTAGCATTC	300
AGTGTTGTGT	CTTCCTAGTG	GGCATGAAGA	CGGCTTTAAA	ACCATCCACT	CGAG	354

- (2) INFORMATION FOR SEQ ID NO:93:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 493 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:

GCTGAAAATG	CAAAACATGA	AGAAAGTGAT	TGAGGCAATT	CGAGTGGAGC	TGGTTCAGTA	60
CTGGGACCAG	TGCTTTTATA	GCCAGGAGCA	GAGACAAGCT	TTTGCCCCTT	TCTGTGCTGA	120
GGACTACACA	GAAAGTCTGC	TCCAGCTCCA	CGATGCTGAG	ATTGTGCGGT	ТААААААСТА	180
CTATGAAGTT	CACAAGGAAC	TCTTTGAAGG	TGTCCAGAAG	TGGGAAGAAA	CCTGGAGGCT	240
TTTCTTAGAG	TTTGAGAGAA	AAGCTTCAGA	TCCAAATCGA	TTTACAAACC	GAGGAGGAAA	300
TCTTCTAAAA	GAAGAAAAAC	AACGAGCCAA	GCTCCAGAAA	ATGTTGCCCA	AGCTGGAAGA	360
AGAGTTGAAG	GCACGAATTG	AATTGTGGGA	ACAGGAACAT	TCAAAGGCAT	TTATGGTGAA	420
TGGGCAGAAA	TTCATGGAGT	ATGTGGCAGA	ACAATGGGAG	ATGCATCGAT	TGGAGAAAGA	480
GAGACTCCTC	GAG					493

- (2) INFORMATION FOR SEQ ID NO:94:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 293 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:

GAATTCGGCC	TTCATGGCCT	ACACACGGCC	AAATTTGAGG	GCATTCTCAC	ATGTGTTCTT	60
CTCTCAAAAC	CACTGGGGTT	GACAGATCCA	GGAGGCTAAA	AAAAAGTGAC	CTCTATAATT	120
CTTTAAAGGT	GCTATTTTTA	GAANATTGTA	TAATTTATTC	ACAGTATATC	TAAAACAGAA	180
TTAAGGACAA	TTAAAATATC	TTATGTGACA	GCCTTTATGT	CTAGTCACAT	TTGATGAAAT	240
AAAAAACTTC	TGAATCTGAA	TAGAAGTTCT	ACTGTNTCAG	GATTGAACTC	GAG	293

- (2) INFORMATION FOR SEQ ID NO:95:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 280 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:

GAATTCGGCC	TTCATGGCCT	AAAAAGACAG	GAAAATAAGT	CTCTTTGTAT	CCTTATTAAT	60
CATTTGAAAT	TATGCTATAA	TATTTTTAA	AACTCACCTG	TTTGGTTCTG	GGTGAAGCAG	120
TTCCTGAAGG	AGTGTTTTGT	CAGAATATAT	TGTTAGGTGA	ATAGAGGGTT	CTGTGGCCAA	180
GTAAGTTTGG	GAAATAGTGG	GTTAGACAAA	GTTGAGTTAC	TGTTGGCCTT	TCAGACCTTT	240
GATACGCTAA	TGTGCATTTT	AAATCTCCAA	GAAGCTCGAG			280

- (2) INFORMATION FOR SEQ ID NO:96:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 279 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:

GAATTCTCCA	GCCTGGGTGA	CAGAGTAAGA	CTCCATCTCA	ААААСААААА	AACCCAACAG	60
GATAAAATTT	AATAGGAGTA	AATATAAAGT	TCTACGTTTT	${\tt GATTTTAAAA}$	ATCTAGGTAC	120
TGTATAGTGT	GTATTAGTTG	GGGTTCCTTT	TTTGAAACTT	AATCTTGCCT	ATAAAACACA	180
AAAGAGTTTA	AGATGATATT	GAGACTCCTC	CTGTCCTCAT	TCCTTTTCCT	TCCTAATAGC	240
TCAGTCCTGA	AGCTCTTAGG	TGAGGCAGAA	CAACTCGAG			279

- (2) INFORMATION FOR SEQ ID NO:97:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 307 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

GAATTCGGCC	TTCATGGCCT	AGGATACCTT	CATTTCAAGG	AGCCTCTTTA	CAGTAACTGG	60
GCTAAACATT	TTGTTGTCGT	CCGTCGGCCT	TATGTCTTCA	TCTATAACAG	TGACAAAGAC	120
CCTGTGGAGC	GTGGAATCAT	TAACCTGTCC	ACAGCACAGG	TGGAGTACAG	TGAGGACCAG	180
CAGGCCATGG	TGAAGACACC	AAACACCTTT	GCTGTCTGCA	CAAAGCACCG	TGGGGTCCTT	240
TTGCAGGCCC	TCAATGACAA	AGACATGAAC	GACTGGTTGT	ATGCCTTCAA	CCCACTTCTA	300
GCTCGAG						307

- (2) INFORMATION FOR SEQ ID NO:98:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:

GAGCTGTGTC	AGCATCGATC	AGGGGTCTGT	AGACAAAAAT	TCCCAAAGAT	TTGAGACTTT	60
ATTGGGGGAA	ACAGATCACT	GGCGGGGAAT	AAGCCACAGG	CCAAAGGAGG	AAATGCTGGG	120
ACCAGAAGTC	CCGCTTGCCG	CCTTTTGCTA	AAAGTTCCGC	ACGCCTGCTC	GGCGTGGGCG	180
CAAGCATAGT	GTCGTCGGGG	CTCTGCGACG	TCTGATTGGC	TCTCTGCAGT	GCACCGTCGA	240
GGTAGAAGGC	TCAGCTCCTA	GTCGCTCCCA	AATTACTTTG	TTGGTGCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:99:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 397 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:

GCCTCTCTGT	TCTGGTTCTC	TCATTTTATA	AAGTGCCTTC	TTCCTTTCTG	CATTTATAAG	120
TAAACATGAG	AAAAATCTGA	AAAGACTTCT	TCAGGATGTT	TAAGGAAACA	AATGTTGCTT	180
TCCTTGGGTT	GGGTCGTTTC	ATAAGAGTGA	TGTTTGCCAT	AAAACTGGAG	CCTCATAGAC	240
GATCCTGCAG	GGAGGAAGCT	TTCCTTGGTC	ACCTGACTCA	TGTGTTTATA	TATAGTATAG	300
AGGAGAGGTA	TTCCAAAAGA	CCCGTCGCTT	TTCCTGTGTC	CCACAGCTGC	CTGTAGAGTT	360
GTGGCACCAT	AAACTTTAGC	AGCTGGAAAT	CCTCGAG			397

- (2) INFORMATION FOR SEQ ID NO:100:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 370 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:

GAATTCGGCC A	AAGAGGCCT	ATTAATTTAA	TAAAGCCATA	TCATACCTCT	CTTTAACATT	. 60
GTTAAAAGGA A	ACTGTGTGT	GTGTATTTGT	GTTAATGTTA	ANTTCTCTTC	ATTTTTGTGC	120
TTGGGGGGCT G	TTTATTTGA	GGATGGTCGG	GGGGCGGGTG	GGTCAGACCC	ATCCATCCCC	180
CATGGAAGAC C	AGACCCATC	CATCCCCCAT	GGAAGACCAT	TCCCGTGTGT	TCAGACTGGC	240
AGGGTACTTC C	ATAGACAGG	AACATTCTGG	ATGCTCTGAT	GCTGAACACT	ACCAGAATCG	300
GCCATGGATT T	GCTTTGAGC	AAACACCCCG	CAGTCAGGAC	TTACTCCTGG	AAAAAGGACA	360
TCTTCTCGAG						370

- (2) INFORMATION FOR SEQ ID NO:101:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 340 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:

GAAAAAAATA	GACAAAACTA	TGATGTAAAA	ATGCTTAAAA	ACAATTATTC	CTCTCTGCTA	60
ATTTTAATGC	AAAATAAATG	ATGCTAGCAT	TTAATATGTT	TATATGATCT	TGTTTTTAGG	120
ATTGAAATTT	TAATACAATG	GCCTTTTGTA	ACTATTTTA	CTATTATAGC	TCAGGTGTTT	180
GAATTCTCTC	TACCCCACCT	ATCACCCCTA	TCCCCTAACA	AAGAGTCTGG	CTTCATAAAT	240
ACTGTTGAAT	GAAAATTGGT	TCTCTAAATG	GTTAACAAGA	TGAATCCACA	TAAATCATAA	300
TTCAGTACTG	AGGAACCGAA	TTTATACCCA	GCGTCTCGAG			340

- (2) INFORMATION FOR SEQ ID NO:102:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 370 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:

AGTGTTCTGG AAATAGCTGG GAGGCCTGTG TGTTTAGGAG CGCCTTAAAC AGTAGGATAT	120
AAGGGCAGAG AAGTAGCTGG GAACTGAGAA GAACTTTGGC TGTTATTCTA GTAAGACTGA	180
AAATTTCAGG TGGGATTTGA ACAGAGATGT GTGGTGATCT GACTTGGTTC ATTCTGCTGT	240
GGTGAAGAGA CTGGAGGTGC GGGGCAAGTA TGGAAGCATG GAGACCATTA ATTTATGGGG	300
GCAATGGTAG AGGGAAGAGA AACAATGCTA TTAACTGGAG TAGGAGCACA CAGAGAACAA	360
GCCACTCGAG	370
(2) INFORMATION FOR SEQ ID NO:103:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 270 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
,	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:	
(AI) DEGODACE BEGGATIZEDA. DEG IN MOTEON.	
GCGATTGAAT TCTAGACCTG CCTTGAGATC ACCGAGTGCT TCATCTCTGA CAGTTCCTCT	60
GACCAGATGA CCACAGGCAC CAACGAGAAC GCCGACAGCA TGACATCCAT GAGCACACCC	120
TCAGAGCCTG GCATCTGCCG CTTTACCGCC TCACCACCCA AGCCCCAGGA TGCGGACCGG	180
GGCAAAAACG TGGCTGTGCC CATCCCTCAC CGGGCCAACA AGAGTGAGTG CTCAGACCAC	240
CTCCCAGGCA GTGCCCCCC GACTCTCGAG	.270
(2) INFORMATION FOR SEQ ID NO:104:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 286 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
AND ADDITION DESCRIPTION OF TO NO. 104.	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:	
•	
GAATTCGCCT TCATGGCCTA ATATGCTTAT GAATATGATG TTGATGGACA GCTCCAAACA	60
GTTTACCTCA ATGAAAAGAT AATGTGGCGG TACAACTACG ATCTGAATGG AAACCTCCAT	120
TTACTGAACC CAAGTAACAG TGCGCGTCTG ACACCCCTTC GCTATGACCT GCGAGACAGA	180
ATCACTCGAC TGGGTGATGT TCAATATCGG TTGGATGAAG ATGGTTTCCT ACGTCAAAGG	240
GGCACGGAAA TCTTTGAATA TAGCTCCAAG GGGCTTCTAA CTCGAG	286
THE PERSON NAMED OF TAXABLE PARTY OF THE PERSON NAMED IN THE PERSO	

- (2) INFORMATION FOR SEQ ID NO:105:
 - (i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 291 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

A 60	TGATTTTTA	TGGGAGAAAC	TAGATGCTAA	ACTTAAATCT	TTCATGGCCT	GAATTCGGCC
C 120	AGTTGAAGAC	TGAAGTAAAC	AGATATGCTA	ACATTTTATC	AAACTAATTA	AAAAACAGGG
G 180	AGGACACAGG	TGGTGAGGTA	TTAGATACCC	AGGAGTTCCT	GTGGATACCG	TGACAGTCCA
A 240	ATAGGGCAGA	CGAGCACACA	AGAAGCCAGG	GAATATGAGG	GCTGAGACCT	CAAGGGGAGA

AAGGAGCAGT AGGTCAAAGC CTGAGGCAGG AGAGAGCTTG ACTGACTCGA G

291

(2) INFORMATION FOR SEQ ID NO:106:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 339 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:	
GAATTCGGCC TTCATGGCCT AGAAATGGTT CTGAAAGCGA CAGTAGAGAG ATGCAGTTGT GATGATTTCA ACAACCTGGA TGTTTTCTTT CTCCTCTTTG CTTCCATTCA TCTCTGTTGG CTGCTGTTGA TGGAGTCAGA CAGTAAACAC GTGGCTTGGA TAACACCCAT CATCCTATGA AGAATATAGG GAGTACTTGT TCTCTGTTGA TTCAACTTTT ATGTCTCCAG TAACATTGCG CTTATGAAGG TACCTGTATT TGTATGGACT CTGAATAAAG AAGAATTCAT TTGTTTAGCA AGTATTAGTT CAGCAACCAC TGAGAAACAA GCACTCGAG	60 120 180 240 300 339
(2) INFORMATION FOR SEQ ID NO:107:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 439 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:	
GAATTCGGCC TTCATGGCCT ACATCATGTC AAAGAGTACT ACATCAGGTT TGGAATCTCC TAAAGACCCG GTACTACCAG CTCGTTTCTT CACTCAACCT GACAAGAATT TCAGTAACAC CAAAAATTAT CTGCCTCTG AAATGAAATC ATTTTCACT CCTGGAAAAC CTAAAACAAC CAATGTTCTA GGAGCTGTTA ACAAGCCACT TTCATCAGCA GGCAAGCAAT CTCAGACCAA ATCATCACGA ATGGAAACTG TAAGCAATGC AAGCAGCAC TCAAATCCAA GCTCTCCTGG AAGAATAAAG GGGAGCTTG ATAGTTCTGA AATGGATCAC AGTGAAAATG AAGATTACAC AATGTCTTCA CCTTTGCCGG GGAAAAAAAG TGACAAGAGA GACGACTCTG ATCTTGTAAG GTCTGAATCG GACTCGAG	60 120 180 240 300 360 420 439
(2) INFORMATION FOR SEQ ID NO:108:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 298 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:	
GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCC TCGAGAGGCA GGTCTAGAAT TCCAAATGTA AAATTTACTA AGGCTTTTCA TGTGGAAGTA GAATGCATAT ATCTTTCTTG ATATAACAAA TGAATTTGGT TGTAGCTAAC GTGTTGTACT AGTAAAGGTC CACCTGCTAA ACTTTTTCTT TTTTGTTGAG GTATAGACAG TAGAGTGATA CCGATACATG AGGAAAATGA GAACTGGAAT GCAGGCCAAA AGCTGGTCCT TTCCAGATGA ATGTAACCAA GACTCGAG	60 120 180 240 298
407	

- (2) INFORMATION FOR SEQ ID NO:109:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 355 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:

GAATTCGGCC	TTCATGGCCT	ACACTCTCAA	ATATGTGGCC	TTTAACGGGA	CCAAAGTAGG	60
AAAGCAGATA	GTGGAAAACT	TCTCTCCCAA	TCAGACCAAG	TTCACGGTGC	AAAGAACGGA	120
CCCCGTGTCA	CGCTACCGCT	TTACCCTCAG	CGCCAGGACG	CAGGTGGGCT	CTGGGGAAGC	180
CGTCACAGAG	GAGTCACCAG	CACCCCGAA	TGAAGCTTAC	ACCAACAACC	AAGCAGACAT	240
CGCCACCCAG	GGCTGGTTCA	TTGGGCTTAT	GTGCGCCATC	GCCCTCCTGG	TGCTGATCCT	300
GCTCATCGTC	TGTTTCATCA	AGAGGAGTCG	CGGCGGCAAG	TACCCAATAC	TCGAG	355

- (2) INFORMATION FOR SEQ ID NO:110:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 407 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:

GAAAAAACTG	GGTCAAAGAA	TTACGGAAAA	TGTTGGGAAA	TGAAATCTGT	TTATGTATAG	60
TTGGTAATAA	AATAGACTTG	GAAAAGGAGA	GACATGTTTC	CATTCAAGAA	GCAGAGTCGT	120
ATGCAGAATC	TGTGGGAGCA	AAACATTATC	ATACTTCAGC	CAAACAGAAC	AAAGGAATTG	180
AGGAACTCTT	TCTTGACCTT	TGTAAAAGGA	TGATAGAAAC	AGCACAAGTG	GATGAGAGAG	240
CAAAAGGCAA	TGGCTCTAGT	CAGCCGGGAA	CTGCAAGGCG	AGGTGTACAG	ATTATTGATG	300
ATGAACCTCA	AGCCCAGACC	AGTGGTGGAG	GGTGCTGTTC	TTCTGGATAA	CTGTTCACGC	360
CTAAGAAATT	AAAAGACAGA	ACAAAACTGT	GGATCATTGC	CCTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:111:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 395 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:

GAATTCGGCC	TTCATGGCCT	AAAAGAAAGT	ACATTAAAGC	AACTTGCATC	TCAAAACAAT	60
ACATTTCTCT	GGTTGAAGTT	TTAGTGAAAA	TCGATTTATT	CCTCCTCTGA	GTTTTACCCA	120
ATGGGTAAAG	TTGTCTAAAT	ATGGGATTCC	TTAGAATCCA	TCCTCCTTCC	CAAGCATTTC	180
CCCATGTTTC	CTTCCACCCC	CAAATTCTTA	CCCCATTTCA	GGCAGAGCTG	AGCAAACATA	240
AGCCTTCTCT	GAAGTATTGA	GGGAAAGTCT	GCTAAACGGC	TAAACTACTT	AAGGAGCTAA	300
CAGAAAAGGT	TGTATCAGAG	AAACAGTGGA	GAAACACAGG	TTTCTAATTA	TATCTGGCAC	360
TGGAGAGAAT	GTCAAAGGTA	TTGGCCCAGC	TCGAG			395

121	INFORMATION	EOD.	CEO	TD	NO. 112.
(2)	INFORMATION	ruk	SEU	1	MO:TIS:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 301 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:

GAATTCTAGA	AACTACAGTA	GTGGGACACA	TAACATAGAA	GTAATCGTCC	AGGATTCTGC	60
TGGAAGAAGT	AAGAGTGTTC	ACCACATATT	TTCTGTTCAA	GAGAATAATC	ATCTCAGTTT	120
TGATCCCCTG	GCATCATTTA	TTCTCCGTAC	TGATCACTAC	ATCATGGCCC	GGGTCCTTTT	180
TGTGCTGATT	GTGCTGAGCC	AGCTCACCAT	TCTCATTATT	TTTAGATATC	GAGGATACCC	240
AGAGCTTAAA	GAACCTTCAG	GGTTTATAAA	TCTGACCTCA	TTTTCTCTTC	AATGTCTCGA	300
G						301

- (2) INFORMATION FOR SEQ ID NO:113:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 268 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:

GAATTCGGCC	TTCATGGCCT	AAGCATGCTG	TCTTGTGATG	GTGATTTCAT	GTGTTTTCTG	60
CATGGGATTA	TTAACGGCAT	CCATTTTCTT	GGGCGTCAAG	TTGTTGCAGG	TGTCCACCAT	120
TGCGATGCAG	CAGCAAGAAA	AACTCATCCA	ACAAGAGAGG	GCACTGCTAA	ACTTTACAGA	180
ATGGAAGAGA	AGCTGTGCCC	TTCAGATGAA	ATATTGCCAA	GCCTTCATGC	AAAACTCATT	240
AAGTTCAGCC	CATAACAGCA	GTCTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:114:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 260 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:

GAATTCGGCC	TTCATGGCCT	ACCCGCATCC	CAGCTCTATT	TAAAAAAATA	AAGAAGAAGA	60
TAATTCATTT	CCTTAAGCTG	CCCTTACACT	ATTAGTCAGG	AATGTTTGTG	TTCACTTCCA	120
CTACATACCT	TACGATCTCT	TTTGCTTTGC	TTTTTTTCAG	TCAAGTCTCT	ATTTATGAGG	180
TGGACAAGCA	AGATTGTCGC	AAATTTTGCA	CTACTGGCAT	CGATGGAGCC	ATGACAATTT	240
GGGATTTCAA	GACCCTCGAG					260

- (2) INFORMATION FOR SEQ ID NO:115:
 - (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:

GAATTCGGCC	TTCATGGCCT	AAACATTTTC	TGAAAAACGT	GATAGAAAGA	AGGAGGAGCT	60
GTTTCTAGGA	GGGAAATAAA	TAATTTGGCA	GGAGACTTTT	TGAACTAGAT	ATCTATTGAA	120
TAACAAAGTG	ACAATGTTCC	CCATCCTCTC	ATTTCCATTC	CCAATTTTAC	TTCTCGTCCC	180
AATTCAAATC	ATTCTTACTT	ATGATCGGCG	CTATGTCAGT	GCCTCTCAGC	TGGTCTTCCC	240
AGACCCAGTC	ACCCTCGAG					259

- (2) INFORMATION FOR SEQ ID NO:116:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 238 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116:

GAATTCGGCC	TTCATGGCCT	AATTACATTT	ATGCAACCAA	GCTATCAAAA	GGACTGGCTG	60
TCCTTGGGAA	TGAAACGTAA	CAAAATCGTC	AATAGAGTAT	TATTGGAAAA	GATTGTTTTC	120
AGTCATGAAC	TAGCTATTTA	AATGAGAAAA	CAAATGTAAT	GATGCTTTCT	GTCATGATTT	180
TATAAATAAA	TGTCAATTGT	AGGAAATTGG	AAAAATAAAAT	GAAAAAGAAA	AACTCGAG	238

- (2) INFORMATION FOR SEQ ID NO:117:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 279 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

GAATTCGGCC	AAAGAGGCCT	ACCCTAGACC	TGTTTTCTGT	TCTCTACTCT	TGAAATGCTA	60
ATGACCTTCA	TGACCAGAGT	CCGCTATTGC	AGTTTGTGGT	TGACAGGCAT	CTCTCACTCA	120
CTGTGCTGCA	ACTCAACTCT	TTATCTTCAA	CCAAACAGGG	CCTCCCCGCA	GCTTTCCCAC	180
TGCCACTCAG	TGGCACTCCA	TCCAGGGTTT	CCAAAGTGTA	AGACCCCGGA	ATTTATCTTT	240
GACACTTCCA	TCTCCCTCCA	CCCCTCATCC	AATTCATCA			279

- (2) INFORMATION FOR SEQ ID NO:118:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 656 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:

GAATTCGGCC	AAAGAGGCCT	AGTTATAATG	ATGGAAGAAG	TGGAAAAACT	TTGTGATCGG	60
CTTGAACTGG	CAAGCTTACA	GTGCTTGAAT	GAAACACTCA	CATCATGCAC	AAAAGAATAG	120
GAAAGGCTGC	TTTGGAAAAA	CAGATAGAAG	AAATAAATGA	GCAAATCAGA	AAAGAGAAAG	180
AGGAAGCTGA	GGCTCGTATG	CGACAAGCAT	CTAAGAACAC	AGAGAAATCA	ACTGGTGGAG	240
GTGGAAATGG	AAGTAAAAAT	TGGTCAGAAG	ATGATCTACA	ATTACTAATT	AAAGCTGTGA	300
ATCTGTTCCC	TGCTGGAACA	AATTCAAGAT	GGGAAGTTAT	TGCTAATTAC	ATGAACATAC	360
ATTCTTCCTC	TGGAGTCAAA	AGAACTGCCA	AAGATGTTNT	TGGCAAAGCA	AAGAGTCTCC	420
AAAAACTTGA	CCCTCATCAA	ANAGATGACA	AAATATAAA	GGCATTTGAT	AAGTTCAANA	480
AAGAACATGG	AGTGGTACCT	CAAGCAGACA	ACGCAACGCC	TTCAGAACGA	TTTGAAGGTC	540
CATATACAGA	CTTCACCCCT	TGGACAACAG	AAGAACAGAA	GCTTTTGGAA	CAAGNTTTGA	600
AAACATACCC	AGTAAATACA	CCTGAAAGNT	GGGAAAANAT	AGCAGAAAGT	CTCGAG	656

- (2) INFORMATION FOR SEQ ID NO:119:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 523 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:

GAATTCGGCC	AAAGAGGCCT	AGAGACAAAT	AGGTGATACT	GAATTTTATA	CTGTTTTCTA	60
CTTTTCCATT	AAAACATTGG	CACCTCAATG	ATAAAGAAAT	TTAAGGTATA	AAATTAAATG	120
TAAAAATTAA	TTTCAGCTTC	ATTTCGTATT	TCGAANCAAT	CTANACTGTT	GTGATGAGTG	180
TATGTCTGAA	CCTGTAATTC	TTAAAANACT	TCTTAATCTT	CTAGAAGAAA	AATCTCCGAA	240
GAGCTCTCTC	TAGAAGTCCA	AAATGGCTAG	CCATTATGCT	TCTTTGAAAG	GACATGATAA	300
TGGGACCAGG	ATGGTTTTTT	GGAGTACCAA	GCAAGGGGAA	TGGAGCACTT	TAAGGGCGCC	360
TGTTAGTAAC	ATGAATTGGA	AATCTGTGTC	GAGTACCTCT	GATCTAAACG	GTAAAACAAG	420
CTGCCTGGAG	AGCAGCTGTA	CCTAACAATA	CTGTAATGTA	CATTAACATT	ACAGCCTCTC	480
AATTTCAGGC	AGGTGTAACA	GTTCCTTTCC	ACCAGATCTC	GAG		523

- (2) INFORMATION FOR SEQ ID NO:120:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 111 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:

GAATTCGGCC AAAGAGGCCT AATTTCTTCC TGTGATATGA GAATTTCTTT TCTTTCAGCA 60
GCTTTACCTG CATTTGGCTT TGGCTTTTGC AATCGGCCCC TCATTCTCGA G 111

- (2) INFORMATION FOR SEQ ID NO:121:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 579 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:

GAATTCGGCC	AAAGAGGCCT	AACCGCGGCC	GCTACTTCGG	CCTCTTTGGA	AAAAAAAAAG	60
TGAAAGAAAA	NATCACAATA	CAGGGAAAAG	TGAGCTAAAA	ATCCCGGCAT	TAAAAAGCCC	120
TTGATGTGGT	CCTGAATCGG	CTATTTCTAT	CTGTTCCCTG	AGCCTAACCT	CAGCGCTGGC	180
CTCTCTAAAC	CTCTTTTCAG	TCCTCTCATT	TTGAAAACAG	GGCCCATTAC	ACATTCTCTG	240
AAAGCTTGCT	GAGTGATTTA	ACCACATAGT	CTAGGGGAGG	CACTCATCAA	ACATAAGGCC	300
TCTCTTTTTG	ATTTTTATCC	TATAGTGGTA	TCTATCTAGA	GGCTGGTGAA	GACAGTGTGG	360
TGGAAGGAAA	GTGGGAAGGA	TACACTGAAA	TAGGACATAG	ACGTAGAGGG	GAGTCGATGG	420
TCATCTGGCT	TGATAGGGAA	AGTTAGAGAG	CTCTCCTGAA	CCACAGTTAC	AGAGCTTGGG	480
ATTATAACAC	ACACAGCCCC	AGAGAAAACA	CTTTGTTTAC	CATATTTCCT	CTTCTGCTGG	540
GGCTCTGGCA	CCTTAATTGG	TCAAAAGGCA	GCACTCGAG			579

- (2) INFORMATION FOR SEQ ID NO:122:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 257 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:

GAATTCTAGG AATGGGTCGG	GAAGTTGAGA	ATCTTATATT	AGAAAATACA	CAACTGTTGG	60
AAACCAAAAA TGCTTTGAAC	ATAGTGAAGA	ATGATTTGAT	AGCAAAAGTG	GATGAACTGA	120
CCTGTGAGAA AGATGTGCTG	CAAGGGGAAT	TGGAGGCTGT	GAAGCAAGCC	AAACTGAAAC	180
TAGAGGAAAA GAACAGAGAA	TTGGAGGAAG	AGCTTAGGAA	AGCTCGGGCA	GAAGCTGAAG	240
ATGCAAGGCA ACTCGAG					257

- (2) INFORMATION FOR SEQ ID NO:123:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 421 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:

GAATTCCTGT	AACTCGGAAA	AGATATCAGA	GGAATGTTCG	TGGCATCAGA	GAGAAAGATG	60
AGAGCTCACC	AGGTGCTCAC	CTTCCTCCTG	CTCTTTCGTG	ATCACCTCGG	TGGCCTCTGA	120
AAACGCCAGC	ACATCCCGAG	GCTGTGGGCT	GGACCTCCTC	CCTCAGTACG	TGTCCCTGTG	180
CGACCTGGAC	GCCATCTGGG	GCATTGTGGT	GGAGGCGGTG	GCCGGGGCGG	GCGCCCTGAT	240
CACACTGCTC	CTGATGCTCA	TCCTCCTGGT	GCGGCTGCCC	TTCATCAAGG	AGAAGGAGAA	300
GAAGAGCCCT	GTGGGCCTCC	ACTTTCTGTT	CCTCCTGGGG	ACCCTGGGCC	TCTTTGGGCT	360
GACGTTTGCC	TTCATCATCC	AGGAGGACGA	GACCATCTGC	TCTGTCCGCC	GGTCACTCGA	420
G						421

- (2) INFORMATION FOR SEQ ID NO:124:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 123 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:

GAATTCTAGA CCTGCCTCC	A GAAAATGAAA	GTCTTTTCTC	AAAAAACTTC	TTCCCAGGTC	60
TGTGAAGCAG CACAGTGGG	C CCTTCTGGCT	CTCACCTTGT	ACCTCGTCCT	TGTTTGCCTC	120
GAG					123

- (2) INFORMATION FOR SEQ ID NO:125:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 303 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:

GAATTCGGCC	TTCATGGCCT	AAGATGGCGT	CTCACAAATC	ATATGCCAAT	TACTGAAATT	60
GGAGGTGAAA	ATATTCTAGA	TTTATTGTGG	GATATATA	TTTTATGGTG	TATGGCTCCC	120
AACACCACAT	GCCACTGAAC	TATATAAAAC	TTTATGTCAG	AACACTTACT	TGTGTCATAT	180
GTAACCCTCT	TGCAAATAAT	ATTCCCTTAC	TACAGATCTG	TCCCACTGTT	CTCAGAAAAT	240
AAAACATGGG	AACGTTGGAA	TGTCTCCTTG	CTATAAGATA	TTGAATTCTA	GACCTGCCTC	300
GAG				*		303

- (2) INFORMATION FOR SEQ ID NO:126:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 508 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:

GAATTCGGCC	TTCATGGCCT	ATGAAGACAA	AGCTAACTTA	CAAAAGCAGC	TGGTTGAAGC	60
AATGAATACG	CAATTAGAAC	TTTCAGAACA	ACTTAAATTT	CAGAACAACT	CTGAAGATAA	120
TGTTAAAAAA	CTACAAGAAG	AGATTGAGAA	AATTAGGCCA	GGCTTTGAGG	AGCAAATTTT	180
ATATCTGCAA	AAGCAATTAG	ACGCTACCAC	TGATGAAAAG	AAGGAAACAG	TTACTCAACT	240
CCAAAATATC	ATTGAGGCTA	ATTCTCAGCA	TTACCAAAAA	AATATTAATA	GTTTGCAGGA	300
AGAGCTTTTA	CAGTTGAAAG	CTATACACCA	AGAAGAGGTG	AAAGAGTTGA	TGTGCCAGAT	360
TGAAGCATCA	GCTAAGGAAC	ATGAAGCAGA	GATAAATAAG	TTGAACGAGC	TAAAAGAGAA	420
CTTAGTAAAA	CAATGTGAGG	CAAGTGAAAA	GAACATCCAG	AAGAAATATG	AATGTGAGTT	480
AGAAAATTTA	AGGAAAGCCA	CCCTCGAG				508

- (2) INFORMATION FOR SEQ ID NO:127:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 713 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:127:

- (2) INFORMATION FOR SEQ ID NO:128:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 277 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:128:

GAATTCGGCC	AAAGAGGCCT	AAGAGATTCA	GGACCTGCAG	AGTCGCCAGA	AGCATGAAAT	60
TGAATCTTTG	TATACTAAAC	TGGGCAAGGT	TCCCCCTGCT	GTCATTATTC	CCCCAGCTGC	120
TCCTCTGTCG	GGGAGAAGAA	GGAGACCCAC	TAAAAGCAAA	GGCAGCAAGT	CTAGTCGCAG	180
CAGCTCATTG	GGCAATAAAA	GCCCACAGCT	TTCAGGCAAC	CTGTCTGGTC	AGAGTGGAAC	240
TTCAGTCTTA	CACCCCAAC	AGACCTCCAC	AGTCGAG			277

- (2) INFORMATION FOR SEQ ID NO:129:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 670 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:129:

GAATTCGGCC	TTCATGGCCT	AAGGCTACCG	ATATTGGAGA	AGCTAACTAT	GGGTTTTACC	60
ACACGTAACA	GCTTTTTGGT	GAAATCAGTT	GTTATACTAA	TAAGCTTTCC	TCTAATTGAT	120
TTGAGTTTTG	GTTTTTGTGT	TTGTATTTGC	GGGTTTTGTC	TCTTTTGTTT	TCTTGTTTTT	180
AGTAAATTGG	TTTTTCTTCA	ATGTATTTTC	TTAAAGTAGT	CTAGCTTTAC	CCAGTTTCCT	240
TGGCAAATTG	AAATTTAGGC	CATGAAGGCC	GAATTCGGCC	TTCATGGCCT	ACTCAGCCTC	300
CCCAAGTAGC	TGGGACTACA	GGCGTGTGCC	ACTATTCTCA	GCTGATTTTT	GTATTTTAG	360
TGGAGACGGG	TTTTTGCCAT	GTTAGTTGGC	CAGGATGGTC	TCTCTCTCGA	CGTCGTGATC	420
CGCCCGCCTC	GGCCTCCCAA	ATTGCTGTGA	TGACAGGCGT	GAGCCACCCC	GCNTGGCNTG	480
TCCTACCTCT	TTTTTAAGAC	CTCTTCCTGT	AAGCACTGGA	TAATCTACTT	CTAGTAATGT	540
GAAACTGACT	ATATNTTGAA	TTCATATGTT	TTCAATCAAC	CTGTTGCAGT	TTATATTTCA	600
CACCCTGCTC	CCTTTTGACA	GTTTAAGTAC	AGATAGTCTC	AGCAGTTCTG	GAGACCATGT	660
AAAGCTCGAG						670

(2) INFORMATION FOR SEQ ID NO:130:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 462 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:130:

GAATTCGGCC	TTCATGGCCT	ACGACTCTGC	TCTATTTACC	ACTATCAGGC	CAATCCTCCT	60
GACATGCTGT	TAATATTTAG	AAATATTTCT	CCAACATTCA	GAGTGCCTGG	GTACCACACA	120
TGGATGCGAC	TAAGATTCTT	AAGTCTGGTT	TCTAAGAGCT	TCTTCAATGT	CTCCAACTAT	180
CTTTTCAGGC	TCATGTTTGA	GACCTTCCTT	TCAAGAATAA	TTTGCTTGTG	ATCTGGTTCA	240
AGCTGAACAG	AGATTTTCAG	ATGACTCCCA	AACTATCTGC	AACACATCAG	CCCTATTAAC	300
TCTTCTCAGA	ATGCTCATAC	AGAAGCCATG	CCAGTGCACA	AAAGCCACTT	CTGACACCTG	360
GCCCTGTCTG	ACTCATGGAT	TTCTTCCAGG	ATTGCTCTTT	CTATCTGCTT	TAAACCTCCT	420
TGTCAATTGA	CTTTCCTTGG	CTCCCAACCC	ACTTTACTCG	AG		462

(2) INFORMATION FOR SEQ ID NO:131:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 535 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:131:

GAATTCGGCC	TTCGTGGCCT	ANATATTCTA	AGCATTCAAT	TTGTCAGTTT	CTGAGATTTT	60
CTTTCCATCT	TAGTTTTTTA	GAAGTCAGAA	AATGACTTTT	CACATTCAGT	TAGGGTATAT	120
AACAATGTTA	ACGTAAGTTT	ATGAGCTGAG	TAGGTAGTTA	ATAAACATCC	TTTTAAGTTG	180
TAATGCTTTG	AAATAGCATA	TTAAAGGGTT	GCAAGGGAAA	ATTGGAACAT	CAGTGTGAGT	24.0
TATTTTACAG	TCATTTGTAG	GTCTGTTTGT	GACCTTGGCC	TTTTCACACT	TGTTTGTCTA	300
TCACCTTTAG	TATATTACTC	TTTGGCACAG	GTTGTCTAAT	CACATTAATT	TTTGCATCAA	360
AAATCCCTTG	GTTTAGTGAT	TCTTAATGAT	GTTTATTTTG	GAAAGTCATG	GACCTGAATT	420
CTTTGAGTAG	TTCATGAAAA	CCATATACCT	TTCCCAGAGA	AATGGGGTGC	ATATAATTTC	480
AGGAAGTTCA	AGGTAGGGAA	AACAAGCTAA	AAATCCCAAC	TTATTTCATC	TCGAG	535

- (2) INFORMATION FOR SEQ ID NO:132:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 401 base pairs
 - (B) TYPE: nucleic acid __ (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:132:

60	GTGTTCAAAT	TGGACACCTT	TCAAAGATGT	AAGGGGATCA	TTCATGGCCT	GAATTCGGCC
120	GGCCTGGATA	TGGTTGTCTT	CTTTTTGGTT	TGCAGATCGG	GTGCGGCCTG	CTTGGTTCAG
180	CACTTTCTTT	ACTTGGTTTC	TCAAATATAG	CATATCATCA	AGATGTCATC	CCAGTGGAGA
240	ATCATCAAAT	TATCAATGTT	TCAGCAAAGA	TACAGTTAAG	CTTTTGGTTT	TTGGACTTTT

AAATTAGATT	CCAATGTTTT	CTCCTTCTCT	CTGGTTTTCT	GAGAGGGTTT	AATTGCTTCC	300
GTAGCAAATA	TATCATCCTC	AAAAATATCT	TGTGTTGTTA	ATATGACATC	CTGCTGACTA	360
CTGGATTTTG	TCTCATTCTT	CTTGACTTTC	TGATCCTCGA	G		401

- (2) INFORMATION FOR SEQ ID NO:133:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 497 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:133:

GAATTCGGCC	TTCATGGCCT	AGTAGATGAA	CTAGAAGATG	GATAAACGAA	GATAGATAAA	60
ATGAAGAAAA	ACAAAAGTCA	AGGAGAACTC	${\tt AGGCGTCCAA}$	${\tt GAGTGTGTAA}$	ACAACTTCTG	120
GTGTGAGACG	CGCTACATTG	CGCTAAATGG	CCTGTGCGCT	TCTGGTTTTT	CCCTTCCTCT	180
GTTGATTTTT	TATAGTTGTC	TTTTATTTTA	AACACGCCTC	CCCCCCCCT	TTTTAAACTG	240
ATTTTACCAT	CACTCTCTCT	AGCCCTGCCT	CCCTAGAATT	AGCTGCTTCT	TACCTCCCTT	300
GGATCTGGAA	CTTAAATATT	AACGTGTATA	TAAGTTAATA	GTAAGTAGAC	CGTGAATTTA	360
GAAGAGTAAA	ACAGAATCAT	GAGTACGTAG	TCACTGTGGC	CCCTTTTTTG	CTGGATTTCA	420
AGTTCGTAAG	CATTTTTGGA	AGAGAGTCGA	AGGGGAAGGG	GTGGCTTGCC	AGTCAGTTGA	480
GTGATGCATG	GCTCGAG					497

- (2) INFORMATION FOR SEQ ID NO:134:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 362 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:134:

GAATTCGGCC	TTCATGGCCT	AGGCTGGTCA	TTGAGAGTGT	TGGTGCAGTC	AAACTGGAAC	60
ACGATGTGAT	TGGTAAACAT	GTGCTTGATA	CATCGAACAA	AATATTCTGT	CTCTGCTTCT	120
GTAAGTTGAA	CAGGCTCAGA	AGACTTGAAC	AAGGGTCCTA	TATTCAGAAA	CTCAGGAATG	. 180
GCAGCCAATT	GTTCTTGGGG	ATATATTTCT	AATGAAGTGC	TAGACTATCC	AATTACTTAA	240
TTTCTTATAC	CTTTAGATAA	TCAGTATGAA	AAGTTCCCAT	TTATAATGGA	AATGAAAATT	300
CTTAACTAAA	CTATACATGT	AATATGTATT	TCTAGAAGAG	AATAAAAACC	CAAGTCCTCG	360
AG						362

- (2) INFORMATION FOR SEQ ID NO:135:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 377 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:135:

CATCTTCTGT CACTGCTGGA GTTGCCAGTT CACTCTCAGA AAAAATAGCC GACAGG GAAAATAACCG GCAAAATGCA CCATTGACTT CCATTCAAAT TCGTTTTATT CAGAAG FACAGGAAAC GTTGGATGAC TTTAGAGAAG CATGCCATAG GGACATTGTG AATTTC FGGAGATGAT TAAACAGTTT CATATGCAAC TGAATGAAAT GCATTCTTTG CTGGAA ACTCAGTGAA TGAAGGTTTA GTGGCTGAAA TTGAAAGACT ACGAGAAGAA AACAAA FATGGGCCCA CCTCGAG	CATGA 180 GCAAG 240 AAGAT 300
(2) INFORMATION FOR SEQ ID NO:136:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:136:	
SAATTCGGCC TTCATGGCCT AAGCAAACTT CATGCAGCTG GTGGAACTAG ATGTGTAAATTCGGCC TCCTGAAATTC CAGAAAGCAT TTCATTCTGT AAAGCACTGC AGGTACCTTCAGCGGA AACCCACTGA CTAGGTTGCC AGAAAGCTTT CCTGAATTAC AGAATTATTCTGTTTCTT GTAAATGACA TCTCACTACA GTCTCTACCT GAAAATATTG GCAATCTAACCTGGCT TCACTGGAAC TGAGAGAGAAA TCTTCTTACA TATCTTCCTG ACTCTCCAGCTGCGA AGACTAGAAG AACTTGACTC GAG	GCTGA 120 FTAAC 180 CTTTA 240
(2) INFORMATION FOR SEQ ID NO:137:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 309 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:137:	-
GARTTCGGCC AATGAAGCCT ACTTTAGTAT TTTGGCACTT CCTAATTGAC ACCTTCACCAGGAA GGGAACGAGA ATCATTNNTA GGNTATTTGT GTGTGTGTG GGTTTTTTTTTT	TTTTT 120 ATCTC 180 CGAGT 240
(2) INFORMATION FOR SEQ ID NO:138:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 599 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:138:	

60 120

GAATTCGGCC AAAGAGGCCT AAACTCAGAA TGGTGCTACT TGAAGACTCT GGATCTGCTG ACTTCAGAAG ACATTTTGTC AACCTGAGTC CCTTCACCAT TACTGTGGTC TTACTTCTCA

GTGCCTGTTT	TGTCACCAGT	TCTCTTGGAG	GAACAGACAA	GGAGCTGAGG	CTAGTGGATG	180
GTGAAAACAA	GTGTAGCGGG	AGAGTGGAAG	TGAAAGTCCA	GGAGGAGTGG	GGAACGGTGT	240
GTAATAATGG	CTGGAGCATG	GAAGCGGTCT	CTGTGATTTG	TAACCAGCTG	GGATGTCCAA	300
CTGCTATCAA	AGCCCCTGGA	TGGGCTAATT	CCAGTGCAGG	TTCTGGACGC	ATTTGGATGG	360
ATCATGTTTC	TTGTCGTGGG	AATGAGTCAG	CTCTTTGGGA	TTGCAAACAT	GATGGATGGG	420
GAAAGCATTA	TTGCAATCAC	AATGAAGATG	CTGGCGTGAC	ATGTTCTGAT	GGATCAGATC	480
TGGAGCTAAG	ACTTAGAGGT	GGAGGCAGCC	GCTGTGCTGG	GACAGTTGAG	GTGGAGATTC	540
AGAGACTGTT	AGGGAAGGTG	TGTGACAGAG	GCTGGGGACT	GAAAGAAGCT	GAACTCGAG	599

- (2) INFORMATION FOR SEQ ID NO:139:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 541 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:139:

GAATTCGGCC	TTCATGGCCT	AACCTTCCTG	AATATCTGCC	GTTTGTCCTG	CAAGAAATAA	60
CTAGTCAACC	CAAAAGGCAG	TATCTTTTAC	TTCATTCCTT	GAAGGAAATT	ATTAGCTCTG	120
CATCAGTGGT	GGGCCTTAAA	CCATATGTTG	AAAACATCTG	GGCCTTATTA	CTAAAGCACT	180
GTGAGTGTGC	AGAGGAAGGA	ACCAGAAATG	TTGTTGCTGA	ATGTCTAGGA	AAACTCACTC	240
TAATTGATCC	AGAAACTCTC	CTTCCACGGC	TTAAGGGGTA	CTTGATATCA	GGCTCATCAT	300
ATGCCCGAAG	CTCAGTGGTT	ACGGCTGTGA	AATTTACAAT	TTCTGACCAT	CCACAACCTA	360
TTGATCCACT	GTTAAAGAAC	TGCATAGGTG	ATTTCCTAAA	AACTTTGGAA	GACCCAGATT	420
TGAATGTGAG	AAGAGTAGCC	TTGGTCACAT	TTAATTCAGC	AGCACATAAC	AAGCCATCAT	480
TAATAAGGGA	TCTATTGGAT	ACTGTTCTTC	CACATCTTTA	CAATGAAACA	AAAGTCTCGA	540
G						541

- (2) INFORMATION FOR SEQ ID NO:140:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 403 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:140:

CTTCATGGCC	TAGTGGTTCT	TCTGAAATCG	GCCTTCAGAC	ACCTGTCTTT	GGTAGTACCA	60
ATATCTAAGA	AGTGGTTTCA	GTTCAATTTT	GTTTTCCTCC	ATGCCAGAGA	GAAGCCACAG	120
TTTCCTAAGC	TGGGGAGGAG	GTATATCCTT	CAAGAGATCG	GCTTGTTAGA	ATAGACCACT	180
TAACACCATA	TGAAAAAGCA	ACAGACTGAA	ACATGGATGT	CCTCAAGAAG	GGCTGCTGAC	240
ACCTATGATT	TGGCAAGGAG	ATAAATAACA	GAATGTGCAA	AGGGTCATAA	GAGTGCAGAC	300
ACCCTAATGT	CTGTTGGCTG	GAAGGTCAGA	GCAGTTCACC	AGTGAAAATG	GGTACGCCAT	360
GAAGGCCGGC	CTTCATGGCC	TATAGGCCAT	GAAGGCCGAA	TTC		403

- (2) INFORMATION FOR SEQ ID NO:141:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 439 base pairs (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:141:

GAATTCGGCC	TTCATGGCCT	AGTCCTCATC	TGCTGGCATT	TTGTGGGGTG	TTAGTGCCAA	60
ACTTGAATAG	GGGCTGGGGT	GCTGTCTTCC	ACTGACACCC	AAATCCAGAA	TCCCTGGTCT	120
TGAGTCCCCA	GAACTTTGCC	TCTTGACTGT	CCCTTCTCTT	CCTACCTCCA	TCCATGGAAA	180
ATTAGTTATT	TTCTGATCCT	TTCCCCTGCC	TGGTCTAGCT	CCTCTCCAAA	CAGCCATGCC	240
CTCCAAATGC	TAGAGACCTG	GGCCCTGAAC	CCTGTAGACA	GATGCCCTCA	GAATTGGGGC	300
ATGGGAGGGG	GGCTGGGGGA	CCCCATGATT	CAGCCACGGA	CTCCAATGCC	CAGCTCCTCT	360
CCCCAAAACA	ATCCCGACAA	TCCCTTATCC	CTACCCCAAC	CCTTTGCGGC	TCTGTACACA	420
TTTTTAAACC	TGGCTCGAG					439

- (2) INFORMATION FOR SEQ ID NO:142:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:142:

GCGATTGAAT	TCTAGACCTG	TGTGTCTAGC	TGTGATGGAA	TCTGAAATGA	AGTTTGACAA	60
GGACCATGAT	GGACTCATTG	AAAATGGAGG	CTATGCAGAC	CAGACCTATG	ATGGATGGGT	120
GACGACAGGC	CCCAGTGCTT	ACTGTGGAGG	GCTGTGGCTG	GCAGCTGTGG	CTGTGATGGT	180
CCAGATGGCT	GCTCTGTGTG	GGGCACAGGA	CATCCAGGAT	AAGTTTTCTT	CTATCCTCAG	240
CCGGGGCCAA	GAAGCCTATG	AGAGACTGCT	GTGGAATGGC	CGCTTACTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:143:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 457 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:143:

GAATTCGGCC	TTCATGGCCT	AGGGAGGCTG	AGGTGGGAGG	CTCACTGGAG	GCCAGGAGTT	60
CGGAACCAGC	CTGAGCAACA	TAGGGAGACC	TCAGCTCTAC	AACTGAAAAA	AAGATAGCCA	120
GGTGTGTTCA	TGGTGGCACC	TGTCTGTATT	CCAGCCGCTT	GGGAGGCTGA	GGCAGGAGGT	180
TTGCTTGAGT	CCAGGAGTTT	GAGGTTGCGG	TGAGCTACAC	AATGAGCTAT	GGTGGCACTA	240
CTACACTCCA	GCCTGGGCCA	TAGAGTAAGG	CCCTGTCTCT	AACTGGAAGT	CCAAAGAGGG	300
ATCTACTTCC	TAGACTATTA	ATTTAATAGA	TCAATAAATT	AATCAAGAAT	ATGATTTTTT	360
TCTCATCTTT	CTCTGTAGTC	ATATTTTATA	CAGACTTTTT	GTTTAAGTAA	TCTCTCTTTA	420
TGGGCAGACA	ATGATTTCAG	AAACACCCTG	CCTCGAG			457

- (2) INFORMATION FOR SEQ ID NO:144:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 388 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:144:

GAATTCGGCC	TTCATGGCCT	AGTCAGCCGT	GACTGCACCA	CCATACTCCA	GCCTGGGTGA	60
CAGAGCGAGA	TCTTGTCTTA	AAACAAAACA	AAACAAAACC	CAGACTTCCT	ATAATTCCTA	120
AAAATAAATG	TGGGTTTGAG	AGGCCTACCT	TGAAATGTAC	AAGATCCTGG	CCAGACTTCA	180
CCTATCTAAC	AATATGCTAG	TAACTATTTG	TTGACATGTC	TTAAAGAAAT	GTTCATCAGG	240
GCCTCAGAAA	GCAAGGCAGA	GAACAGGTCC	CTGAAATTTA	CTAGCTTGCA	CCAAACCATC	300
AGATAAAGAT	AGGTTAATAT	TTGACAGAAA	AAACTCTTCA	AAAAGAGACA	GTGAAATACT	360
CTTGAGATGA	ATCCAGGCGG	CTCTCGAG				388

- (2) INFORMATION FOR SEQ ID NO:145:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 303 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:145:

GAATTCGGCC	TTCATGGCCT	AGGCAGTGGA	GGCCTCTGTA	ATTCTAGCAT	ACAGGTGGCA	60
AGTTATTACA	TTATTTCTTT	CCTCCTGTCT	ACCTGCAGTT	GGTTTTATGT	GGGGCGTTAG	120
TACACTTCCC	AAAGGGCTTG	CCCGCAGGTG	AGAGGTGCAC	ATTGAACTCC	CTCACCAGGC	180
AGATGGGAAG	TGTGGCCATG	AGAGAGAGCT	TCAGGGGCCC	TGGGTTTATG	ACATCGCTGG	240
GCCAGGAATG	AGGTTAATAT	TTTTAATGGC	GAAGGGTGAG	CCCCGTTATT	ACCCGAGCTC	300
GAG						303

- (2) INFORMATION FOR SEQ ID NO:146:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 376 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:146:

GAATTCGGCC	TTCATGGCCT	ACTGGATGGC	ATCTACTTCG	TATGACTATT	GCAGAGTGCC	60
CATGGAAGAC	GGGGATAAGC	GCTGTAAGCT	TCTGCTGGGG	ATAGGAATTC	TGGTGCTCCT	120
GATCATCGTG	ATTCTGGGGG	TGCCCTTGAT	TATCTTCACC	ATCAAGGCCA	ACAGCGAGGC	180
CTGCCGGGAC	GGCCTTCGGG	CAGTGATGGA	GTGTCGCAAT	GTCACCCATC	TCCTGCAACA	240
AGAGCTGACC	GAGGCCCAGA	AGGGCTTTCA	GGATGTGGAG	GCCCAGGCCG	CCACCTGCAA	300
CCACACTGTG	ATGGCCCTAA	TGGCTTCCCT	GGATGCAGAG	AAGGCCCAAG	GACAAAAGAA	360
AGTGGAACAA	CTCGAG					376

- (2) INFORMATION FOR SEQ ID NO:147:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 412 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:

GAATTC	GGCC	TTCATGGCCT	AATGGAAAGG	ACAAGGAAAA	GGGAGAAGGG	GTGAGAGTCT	60
GTCCTA	GGGG	CCAACGAGAA	CAGTGAGCTG	TTTCAGGGGA	GCCATTTCCT	TGTCCATGCT	120
CACAAG	CCTG	TGGATTCTTC	CCCCTCTGCA	GGAAATTACC	TGATGTTCCA	AACCCCCTCC	180
AGATCC	TGTA	TATCCGCAGC	ATCTCCCCTT	TCCCTGAGCT	GGAACAGTTT	CTACAGGACA	240
CTATCA	AGAG	GTACTAGGGG	CCTGGAGGTT	TGGGCTCCAA	GAGAAGCTTG	ACAGAGCCCA	300
CGCCCG	ACCC	CTACTTCTGT	TTCTTCCTAA	GGTATAATCT	GCAGATGTTG	GAAGCTGAGG	360
GCAGCA	TGAA	GCAGGCCCTG	GGTGAACTGC	AGGCACAGCA	GCCCCCTCG	AG	412

- (2) INFORMATION FOR SEQ ID NO:148:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 335 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:

GCCTGGCCAT	CCGGAGAGCT	AAGAACCTCA	GGCGGCTGCT	GTACGTNTCA	TGCAACCCCC	60
GGGCAGCCAT	GGGCAACTTT	GTGGACCTCT	GCAGAGCCCC	ATCTAACCGG	GTGAAGGGCA	120
TTCCCTTCCG	GCCGGTCAAG	GCTGTGGCAG	TGGACCTGTT	CCCGCAGACC	CCTTCTTTTT	180
TCATACTTAT	ATGAAAGACT	ACATACTTAA	AATACTGGTG	ATTATATTTA	GGACCTGAAA	240
TCATAAGATT	GTGGTCTTGC	TTTTTACTTA	TTTTTGTATC	TTAGCGATGT	CTAGAGTTAA	300
TAAGTGTTGC	TTTTCTAATC	ACAGCAAATC	TCGAG			335

- (2) INFORMATION FOR SEQ ID NO:149:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 482 base pairs (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:149:

GGATTCGGCC	TTCATGGCCT	AGTGGGGCAC	TAGGATCATC	ATTTGGGTGA	GAGCCCTCGG	60
CAATGGTGGA	GAGGGAGAAG	TTATCATTGT	GGAGCTCAGA	TGGGGTCCGG	AATTTGTTGG	120
TCCTACGCAG	CTTGGTATTC	TCCGTCTTGA	GCAGGTAGAG	CTTCTTGGCA	AAGAACACCG	180
TCATCATGAA	GAGCAGGAGC	AGGACGAGGG	CAGCCGAGCC	CACGGCCACG	CACATCACCT	240
GGAAGTCGGT	GATGATGGAC	TCGCAGCGCA	TCCCCTTGTG	CCAGATGTAG	TCCTGCGTGT	300
TGCACCTGCA	GAAGGCCCCT	ATGTTCTCCA	CCAGGTAGCA	CTGGCCGCCA	TTGTGACAGT	360
AACTTGGGAA	GAGGTCGCAC	ACTGACCGGC	AGGAGCCGTT	ATGCCGCACA	AAGCCACTGC	420
GGCACTCAGT	GCCATTTTCA	CTGGAGGCCA	AGTCCCTGCC	TGGCTCTCCT	TAGGCCATGA	480
AG						482

- (2) INFORMATION FOR SEQ ID NO:150:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 277 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D)	TOPOLOGY:	linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:150:

GTTCCTTACT	AACTTTAATG	GCCACAACAT	TTAGGCGAAA	GGGGGGCAAT	CATTGGTGGT	60
TTGGCATTCG	CAGAGACTTC	TGTCAGTTTC	TGCTTGAAAT	TTTCCCATTT	TTAAGAGAAT	120
ATGGGAACAT	TTCATATGAT	CTCCATCACG	AAGATAGTGA	AGATGCTGAA	GAAACATCAG	180
TTCCAGAAGC	TCCGAAAATT	GCTCCAATAT	TTGGAAAGAA	GGCCAGAGTA	GTTATAACCC	240
AGAGCCCTGG	GAAATACGTT	CCCCCCTCT	CCTCGAG			277

(2) INFORMATION FOR SEQ ID NO:151:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 272 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:151:

GCTCGCCCAC	TTTATGAAGA	GCGATTTCAC	GGCTGCTTGA	ACCATTCGAA	TTTGGATTTG	60
TGTTCAGCAC	TTTAAAAGGT	TCAACTTTTT	GCTTCTACCC	AGATTGGTCT	CAGGTCTGTC	120
TTCTCCAGAT	GACCGGTGGT	TTCCTGAGCT	GCATCTTGGG	CTTGGTGCTG	CCCCTGGCCT	180
ATGGCTTCCA	-GCCTGACCTG	GTGCTGGTGG	CGCTGGGGCC	TGGCCATGGC	CTGCAGGGCC	240
CCCACGCTGC	ACTCCTGGCT	ACAATACTCG	AG			272

(2) INFORMATION FOR SEQ ID NO:152:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 308 base pairs

 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:152:

GAATTCGGCC	TTCATGGCCT	AGGGGCGGTG	AAACGTCCTG	AAGAGCGTCC	AGCTCGTGGC	60
CGAGAGGACT	CGGGCGCTCC	CCACGCTGGA	GGCCGTGGAC	CGCTCCCTTT	AAAAGTTGAA	120
ACGGCCGCCG	TTCGGGACGG	CCTGGCGGGA	GGAGGGCCCG	ACGAGGGGAG	GCTTCAGGGA	180
CAACTGGGGC	TTCTCGACGT	CCACCCTTTT	CAGGGCGCGG	CCCCGGTAGC	CCTCGGGCCG	240
GCCCAGGTAC	AGGAGGTGCT	TCCCGGGACC	CCCGGAGTAC	CTGGAGGGAC	CTCCCGAGGG	300
GACTCGAG			,			308

- (2) INFORMATION FOR SEQ ID NO:153:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 438 base pairs (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:153:

GAATTCGGCC	TTCATGGCCT	ACAATCCCAA	ATGTAGGATC	ATGCCCATTG	CCCTAAGCCC	60
AGGCATGAGA	GTCGACATCT	CTCCTCTTAT	ATACAGATCC	AGTCCACAGG	TGAAGTGGGA	120
ACTCTCCAAC	CAGGATTCAG	CACACCATTG	ATGTTGCGAC	TCCTCTACTG	GAACACAGCT	180
TGGAGAAGGG	ATTGGGGCTC	TCATGGCAGG	ATGCAATCCA	CTGTTGAGAT	TGTGACTCAT	240
GCACTTGAAC	CTAAGTCTCA	GGAGTTGTTG	ACTCTTACAC	CCAGCACCCA	GGTGATAGGA	300
CTCTCATGTC	TGGTTCCTGC	CCACAGGTGA	AATTGTGACA	TATACATGGT	CACAGCTCAC	360
AGGTGAGGTG	ATAACTCACA	TACCTGGATC	CAGCTAAGAG	AACAGATTTT	GACTCTGATA	420
TCTTAGGCCA	TGAAGGCC					438

- (2) INFORMATION FOR SEQ ID NO:154:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 297 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:154:

GAATTCGGCT	TCATGGCCTA	CAAGATGACT	AAAGTCTTCA	CTCACCAAGG	AAAAGTGGCT	60
CTGTATGGCA	AGCTGGTGCA	GTCAGCTCAG	AATGAGAGGG	AGAAACTTCA	AATAAAGATA	120
GATGAGATGG	ATAAAATACT	TAAGAAGATC	GATAACTGCC	TCACTGAGAT	GGAAACAGAA	180
ACTAAGAATT	TGGAGGATGA	AGAGAAAAAC	AATCCTGTGG	AAGAATGGGA	TTCTGAAATG	240
AGAGCTGCAG	AAAAAGAATT	GGAACAGCTG	AAAACTGAAG	AGGAGGATGC	TCTCGAG	297

- (2) INFORMATION FOR SEQ ID NO:155:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 395 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:155:

GAATTCGGCC	TTCATGGCCT	AAATTTAGGA	AGGTCAAACG	TGAATCTCCA	TTTGACAAAC	60
GTCCAACTGC	AGCAGAGATT	AAAGTGGAAC	CCACCACTGA	GTCATTGGAC	AAAGAGGGCA	120
AAGGTGAAAT	TAGAAGCCTA	GTGGAGCCAC	TCAGTATGAT	CCAATTTGAT	GATACTGCTG	180
AGCCACAGAA	AGGAAAAATA	AAAGGAAAGA	AACACCATAT	CTCTTCAGGA	ACTATCACAA	240
GCAAAGAAGA	AAAAACTGAA	GAGAAGGAAG	AGTTGACCAN	ACAAGTCAAG	TCTCATCAAC	300
TTGTTAAATC	ACTCTCAAGA	GTGGCTAAAG	AGACTTCAGA	ATCTACCAGA	GTTCTAGAAA	360
GTCCAGATGG	CAAAAGTGAA	CAGCGTAACC	TCGAG			395

- (2) INFORMATION FOR SEQ ID NO:156:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 422 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:156:

GAATTCGGCC	TTCATGGCCT	ACAGAGTACT	GAGTGGAACA	TACGATGATA	GATTTACAAA	60
TAATGTAGCA	TACTTCTACT	TCATTGTATC	TTAAGTTTCT	TGAAATATTG	CTACTGGAGA	120
TTGGAAAGAA	ATCTTAATGT	TATGGGGTAT	TGTCTAAGAA	GCTTTATTTT	AAAACCATCT	180
CATTAAATTT	TGTTGCATTT	TAGATAATCG	TCCCCAGATG	CCATGTTACC	CTAGTGCAGA	240
GTTTGGGGCT	GGATAAGTTT	TTGTTGTAGG	TGGCTATCCT	GTGTTTTGTA	GGGTATTTAG	300
CAGCATCCTG	GCCTTAAAAC	AAAAATGTTT	TCAGACATTG	CCAAATGTCC	CCCGAGCGGT	360
AAAGTCACCC	CCAAGTTGAG	AACCGCTCTA	TACAAAGAGC	TGTTATTAGA	GCCAGACTCG	420
AG						422

(2) INFORMATION FOR SEQ ID NO:157:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 492 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:157:

GAATTCGGCC	TTCATGGCCT	AGATTGCTTG	AGGCCAGAAG	TTCAAGACAG	GCTGCCCAAC	60
ATAGTGAGAC	CCCCTTCTCT	ACCAAAATTT	TAAAAATGAG	CATGCATCTG	TAGTCCTAGC	120
TATTGGGAAG	GCTGAGGCAG	GAGGATCATC	TGAGCCCAGG	AGTTTGAGGC	TGCAGTGAGC	180
TAAGAAGGTG	CCACTGCACT	GCTGTTGTCT	CTCAGCAGAT	CATTTTCAGC	TTTCTTTGGA	240
GAGTAGCCAT	TAGCAATGCA	AATGTGAAGT	TTGATAGCAC	AATAAATAA	ACACTGAAAA	300
CTGTAGATGT	TACTTATAAA	ACACTGGCAC	TCAGATAAAT	TGGGTTTGGT	CAAGAAGACA	360
GTGAAGCATA	TCCCTGTTGG	GCCAGAGGCT	GTTATCGTTT	TGCTCTGAAT	TCAAAACCTG	420
ATATGTCTCC	AAATTTGCTT	AGGGTTGTTA	TCCTGGAAAA	TAGAATCTGA	TAGAAGGTGG	480
GCACATCTCG	AG					492

- (2) INFORMATION FOR SEQ ID NO:158:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 505 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:158:

GAATTCGGCC '	TTCATGGCCT	ACTGCTTTCG	TGAAGACAAG	ATGAAGTTCA	CAATTGTCTT	60
TGCTGGACTT	CTTGGAGTCT	TTCTAGCTCC	TGCCCTAGCT	AACTATAATA	TCAACGTCAA	120
TGATGACAAC	AACAATGCTG	GAAGTGGGCA	GCAGTCAGTG	AGTGTCAACA	ATGAACACAA	180
TGTGGCCAAT	GTTGACAATA	ACAACGGATG	GGACTCCTGG	AATTCCATCT	GGGATTATGG	240
AAATGGCTTT	GCTGCAACCA	GACTCTTTCA	AAAGAAGACA	TGCATTGTGC	ACAAAATGAA	300
CAAGGAAGTC .	ATGCCCTCCA	TTCAATCCCT	TGATGCACTG	GTCAAGGAAA	AGAAGCTTCA	360
GGGTAAGGGA	CCAGGAGGAC	CACCTCCCAA	GGGCCTGATG	TACTCAGTCA	ACCCAAACAA	420
AGTCGATGAC	CTGAGCAAGT	TCGGAAAAAA	CATTGCAAAC	ATGTGTCGTG	GGATTCCAAC	480
ATACATGGCT	CAGGAGATGC	TCGAG				505

- (2) INFORMATION FOR SEQ ID NO:159:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 373 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:159:

GAATTCGGCC AAAG	AGGCCT AGCCGGAGCA	GCTGTCTGGG	AGTCAAGGCT	GCAGTAGCGT	60
TTCTTCATGG GGTG	CTCCAG GGGGTGCCAC	AGACCGACAG	GCAGCCCAAG	GGCCTGGACA	120
CCCCTCCCCA GGCAC	GGTGCT GCCCCAGGAG	GACTGTCCTC	GGGAATGAAC	CTCCCGCGG	180
CTTTGGACTG AGGT	CCCTGT GGCCTCGGTC	TCCTCCCCAT	GAAGTGGGAG	CGAGGCTCCC	240
CAATGGTGCT TTTG	GCTTTA GTGTACGATG	TTTGCTGTGC	TTCCCGCCGT	GGAGGGCAGA	300
GCCACCCCAC ATCAC	GGATCG GACGTGCTAC	CCCTCCCGGT	CCCGGCCCTG	GCCCAGCCAG	360
CCCAGCCCTC GAG					373

- (2) INFORMATION FOR SEQ ID NO:160:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 362 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:160:

GAATTCGGCA	AAGAGGCCTA	ATGAATTCTC	TGATCACAAA	ACAGACCCAG	GAAAGCATTC	60
AGCATTTTGA	GCGACAGGCA	GGGCTGAGAG	ATGCTGGCTA	CACACCCCAC	AAGGGCCTCA	120
CCACCGAGGA	GACCAAGTAC	CTTCGAGTGG	CCGAAGCACT	CCACAAACTA	AAGTTACAGA	180
GTGGAGAGGT	AACAAAAGAA	GAGAGGCAGC	CTGCATCAGC	CCAGTCCACC	CCAAGCACCA	240
CTCCGCACTC	TTCACCTAAG	CAGAGGCCCA	GGGGCTGGTT	CACTTCTGGT	TCTTCCACAG	300
CCTTACCTGG	CCCAAATCCT	AGCACCATGG	ACTCTGGAAG	TGGGGATAAG	GACGGGCTCG	360
AG						362

- (2) INFORMATION FOR SEQ ID NO:161:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 419 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:161:

GAATTCGGCC	AAAGAGGCCT	AGTTTTACAA	AACGCGATTT	GTAATATAAA	CTAGTTAGAT	60
AACTCAGAGG	GTTTTATTGG	CCATATTTTT	GTTTATGCTT	TGTCACAGGC	TTTAGTCATT	120
GCTTCCATGT	GTTTTCATCC	TTCAGGATAT	CTTCAAGAAG	CCTACTTATG	GACCAAACAA	180
GTTCTGACCA	TCATGGAGAA	ATCTCTGGTC	TTGCTCAGGG	AGGTGACGGA	TGGCTCCCTC	240
TATGAAGGAG	TTGCGTATGG	CAGCTACACC	ACTAGATCAC	TCTTCCAATA	CATGTTTCTC	300
GTCCAGAGGC	ACTTCAACAT	CAACCACTTT	GGCCATCCGT	GGCTTAAACA	ACACTTTGCA	360
TTTATGTATA	GAACCATCCT	GCCAGGTATA	GTGAGGAGTC	AGAAGTGTGA	AAACTCGAG	419

- (2) INFORMATION FOR SEQ ID NO:162:
 - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 261 base pairs(B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:162:	
GAATTCGGCC AAAGAGGCCT ACAGGTAGTA TCTTTATAGC GGTATAAAAA CAGACTAATA CAAACAGGTA GCTCTAAATT GTGAGTTTT CTTAACTCCT TTGATCTTCT GTGATAGCGA TTTTTCACAT TTCACACTTC CCTAATGCCA AAAATCCACC TCCAGCAGCT GTTTTGCCTC TTTCTTATCC TGCCCCTTGG AAGAATGTCA TCATTATTGC TGCCACAGCA CTGTGTTCTT TTTCAGAAGT TACAGCTCGA G	60 120 180 240 261
(2) INFORMATION FOR SEQ ID NO:163:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 108 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:163:	
GAATTCGGCC AAAGAGGCCT AGTGGTCTGG GGCAAAATTT AGTAAGACCT GGAAAGCATA GGTAATCAAA GCAGAAACTG ACAAATGAGA TGGTATCAAG CTAAAAAG (2) INFORMATION FOR SEQ ID NO:164:	60 108
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:164:	
GAATTCGGCC AAAGAGGCCT AGTTTAACCT CATCAGACAT TATTGCAGCC AGCTGTCAGC CAAGCTCAGT AACCTTCCAA CGCTCATTTC CATGAGGCTA GAGTTCCTGA GAATCCTCTG TAGCCATGAG CATTACCTCA ATCTGAACCT TTTTTTATG AATGCTGATA CTGCTCCAAC ATCTCCTTGT CCTTCCATAT CTTCCCAGAA CTCAAGCTCC TGCTCCAGCT TCCAGGACCA GAAGATCGCC AGCATGTTCG ATCTGACTTC CGAGTACCGC CAGCCCCTCG AG	60 120 180 240 292
(2) INFORMATION FOR SEQ ID NO:165:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 135 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:165:

GAATTCGGCC	AAAGAGGCCT	AGCAAAAACT	GTTCAAAAGA	GTTGTTGATT	ACTTTCATTT	60
CCACTTTCTC	ACCCCCATTC	TCCCCTCAAT	TAACTCTCCT	TCATCCCCAT	GATGCCATTA	120
TGTGGATTCC	TCGAG					135
(2) INFORM	ATION FOR SI	EQ ID NO:160	6:			

- In the state of th
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 449 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:166:

GAATTCGGCC	AAAGAGGCCT	AGAAAAAGTA	GCACAGTGGA	GTCTGAAATA	GCAAGCGAAG	60
AGAAAAGCAG	AGCTGCTGAG	AGGAAAAGGA	TTATTATTAA	GATGGAGCCA	GAAGATATTC	120
CTACAGATGA	ACTGAAAGAC	TTTAACATTA	TTAAAGTTAC	TGATAAAGAC	TGTAATGAAT	180
CCACTGACAA	TGATGAATTA	GAAGATGAAC	CTGAAGAGCC	ATTTTATAGA	TACTATGTTG	240
AAGAAGATGT	CAGCATAAAA	AAAAGTGGTA	GGAAAACTCT	AAAACCTCGA	ATGTCAGTAA	300
GTGCTGATGA	AAGAGGTGGT	TTAGAGAATA	TGAGGCCCCC	TAACAACAGC	AGTCCAGTAC	360
AAGAGGATGC	TGAAAATGCA	TCTTGTGAGC	TGTGTGGACT	TACAATAACC	GAGGAGGACC	420
TGTCATCTCA	TTACTTAGCC	AAACTCGAG				449

- (2) INFORMATION FOR SEQ ID NO:167:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 565 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:167:

GAATTCGGCC	AAAGAGGCCT	AAAAGGAAAC	TTGGACAAGT	AGAAAGTGGA	TGACCCAGGC	60
TCCGTTACAT	ATACTTGGAT	TCCAGCTGGG	ACCTAGATTT	GCTGAGGACG	GAAGCCAAGG	120
AGACAGGAAC	ATGTGGCTGC	TCCCAGCTCT	ACTCCTTCTC	TGCCTCTCAG	GCTGTTTGTC	180
TCTGAACGGC	CCCGGCTCTG	TGACTGGCAC	TGCGGGGGAC	TCTCTGACAG	TGTGGTGTCA	240
GTATGAGAGC	ATGTACAAGG	GATATAACAA	GTACTGGTGC	CGAGGACAGT	ACGACACGTC	300
ATGTGAGAGC	ATTGTGGAGA	CCAAGGGAGA	AGAGAAGGTG	GAGAGGAATG	GCCGCGTGTC	360
CATCAGAGAC	CACCCGGAGG	CTCTCGCCTT	CACTGTGACC	ATGCAGAACC	TCAATGAAGA	420
TGATGCTGGA	TCTTACTGGT	GCAAAATTCA	GACAGTGTGG	GTCCTGGATT	CATGGTCACG	480
CGATCCCTCG	GACCTGGTTA	GGGTGTATGT	TTCCCCAGCA	ATTACAACCC	CAAGGAGGAC	540
CACACATCCÁ	GCCACCCCGC	TCGAG				565

- (2) INFORMATION FOR SEQ ID NO:168:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 158 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:168:

GAATTCGGCC AAAGAGGCCT AGTTTCCTTT ATATGTTTGC ACTTAATTTG ATTCCATCCT TCATGCTGTT TTCATTATTC TTAGTTCATC TACACCACAT AAATTATCAC CTTTGTTTTC AGTTCCCCAA TTTCCATGTG CCACAAACAA ATCTCGAG	60 120 158
(2) INFORMATION FOR SEQ ID NO:169:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:169:	
GAATTCGGCC AAAGAGGCCT AGTCTCACCA TCTATTCTAA ACCTTATATT ATCAATCCTA TTCCCTCTCA CCAAAAGAAT CCCTTTATAC AAGTAATTAT CCTGTCTATG TCTTTCAACT CTAGTTTCCC CACTGCAACT CTTCCCTTAA TATATGTACC TGCTCTGTTA TCCCCTCCA GCTACTTCCC TATTTCTGT TCCCCTTTAC AGGAAAACTT TTCTCCAGCA TTTCCCAATG CCATTGTCTT ACTTCCTCA ATTCTATTT CTTCTCAAAC CATTTTTATT AGGCTTCTTT CCCCAATGGC TATTGTCAAG CTTCACTTAA TGCCGTGCAA ATCACCCTAT TCTCCAGGTC TTCTTTCTTC CCAGTCTCC GAG	60 120 180 240 300 360 383
(2) INFORMATION FOR SEQ ID NO:170:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 282 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:170:	
GAATTCGGCC AAAGAGGCCT AAATATTGTC TGAAAAAAAT ATATGAGACC CATTACTCAG TCTCTCCTCC TGCCATTTAT ACTGCAGGTA TTCCCCAAGT TTCTCTTCTC	60 120 180 240 282
(2) INFORMATION FOR SEQ ID NO:171:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:171:	

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GCATAATTGA TGCAACTAGA GTCAATATGC TGTATATATT AATGATAGCT CTTGGGCA GATCTCTGAA AGCTCAAATG GATGGAATTT AGTTTGCGGG AACTCTCGAG	350 350
(2) INFORMATION FOR SEQ ID NO:172:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 140 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:172:	
GAATTCGGCC AAAGAGGCCT AGGGGTGTAC ATTTTATTGG AAACCTTAAA TACTGTTC AAAGAATATA TCTTCAATCA AGGCTCTTGT GCAGCCTACA CAGAAAAATG AAGCTTTT GGTTAGGTGC AACGCTCGAG	
(2) INFORMATION FOR SEQ ID NO:173:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:173:	
GTGGTCTCTC CTCCCCTGCC ACTCCCCTCT TCTTTTTTT CCAACATGGC CTTGCTCCC GTACATCGCC ACCCAGGGAC CGCTGCCCGC CACCGTGGCT GACTTTTGGC AGATGGTG GGAGAGCGGC TGCGTGGTGA TCGTCATGCT GACACCCCTC GCGGAGAACG GCGTCCGGG GTGCTACCAC TACTGGCCGG ATGAAGGCTC CAATCTCTAC CACATCTATG AGGTGAACG GGTCTCCGAG CACATCTGGT GTGAGGACTT CCTGGTGAGG AGCTTCTATC TGAAGAACG CGAG	TG 120 CA 180 CT 240
(2) INFORMATION FOR SEQ ID NO:174:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 188 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:174:	
GCGATTGAAT TCTAGACCTG CCTCTCTTAT ACCTCGGTGT GGCCGAAAGG AAATAAGC AGGCGCTATT GGCAGGACCT AGAAACTTTC CTTGTAACAT AGCTAGTATG TTCCCTCT CCCTTCTTCA TCTTTCCTC ACACTTGCTG GAGCTGGAGC AGCTATCCTG ACCGCAGG CACTCGAG	GC 120
(2) INFORMATION FOR SEQ ID NO:175:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 274 base pairs	

- (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:175: GAATTCGGCC TTCATGGCCT ACTATCTGCC TTGCGCTCCC ACTGCCCTGA CCTGTGCCCT 60 CTCACAGGCC CCCGTGATGG CTCGCTGGCC TCCCTTCGGC CTCTGCCTCC TCCTGCTGCT 120 GCTGTCCCCA CCGCCACTGC CCTTGACAGG GGCCCATCGC TTCTCCGCAC CTAATACCAC 180 TCTCAACCAC TTGGCACTGG CACCTGGCCG AGGCACACTC TATGTCGGCG CAGTGAACCG 240 CCTCTTCCAG CTCAGCCCCG AGCTGCAGCT CGAG 274 (2) INFORMATION FOR SEQ ID NO:176: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 327 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:176: GGTCAGCCGA GCATGATAGG AGACATCATC AACCTCGGCC TGAAAGGGAG GGAGGGGAGA 60 GCAAAGGTCG TCAACGTGGA GATCGTGGAG GAGCCCGTGA GTTATGTCAG CGGGGAGAAG 120 CCGGAGGAGT TTTCCGTCCC ATTCAAAGTG GAGGAGGTCG AAGATGTGTC GCCAGGCCCC 180 TGGGGGTTGG TTAAGGAGGA GGAAGGTTAT GGAGAAAGCG ATGTCACATT CTCAGTTAAT 240 CAGCATCGAA GGACCAAGCA GCCTCAGGAG AACACGACTC ACGTGGAAGA AGTGACAGAG 300 GCAGGTGATT CAGTGGGCGA GCTCGAG 327 (2) INFORMATION FOR SEQ ID NO:177: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 408 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
- - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:177:

GAATTCGGCC	AAAGAGGCCT	AAGCAATGTC	TCCACCACTG	CTGCTGCTAC	CCTTGCTGCT	6.0
GCTGCTGCCT	CTGCTGAATG	TGGAGCCTGC	TGGGGCCACA	CTGATCCGGA	TCCCTCTTCG	120
TCAAGTCCAC	CCTGGACGCA	GGACCCTGAA	CTACTGAGGG	GATGGGGAAA	ACCAGCAGAG	180
CTCCCCAAGT	TGGGGGCCCC	ATCCCCTGGG	GACAAGCCTG	CCTCGGTACC	TCTCTCCAAA	240
TTCCTGGATG	CCCAGTATTT	TGGGGAAATT	GGGCTGGGAA	CGCCTCCACA	AAACTTCACT	300
GTTGCCTTTG	ACACTGGCTC	CTCCAATCTC	TGGGTCCCGT	CCAGGAGATG	CCACTTCTTC	360
AGTGTGCCCT	GCTGGTTCCA	CCACCGCTTC	AATCCCAATG	TCCTCGAG		408

- (2) INFORMATION FOR SEQ ID NO:178:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 305 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

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- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:178:

GAATTCGGCC	AAAGAGGCCT	AGGAGGAATT	TCCATCTTGC	TCTCAAAGTG	AGTCTGAATG	60
TGCTCGGTGG	TGTCACCCCC	GCCGAGCTGC	CAGTGCAGAA	GGCCACTATT	GAACTCCTGC	120
ACACGCCCCA	ACTTGTCAGA	TCGGTCAACA	ACAAACAGGT	TGTTCTTTTT	GACTATCTTT	180
ATTGGCAGCT	TGTCGAACTT	ACTGGCTTGC	TTGGGCTTCT	CCTTTGGGTC	TGCAGCGGCG	240
TCCGGGGCAG	TCAGAGCGAT	GCTGCTCTTT	TCATCGCTTT	CTGTCTTCTC	GCTGTCTACC	300
TCGAG						305

- (2) INFORMATION FOR SEQ ID NO:179:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 247 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:179:

GAATTCGGCC	AAAGAGGCCT	AGTGCAGCAA	TTTAGAGAGT	GTCTCAGGAG	TGTGGCTCAC	60
TGGCAGCTGC	AGCTATGTTA	GTGCTTCTTT	CTGCCTCAAG	TTCAGAAACA	AGCTGGACTA	120
TCTCAGGGTG	ATTGAATTTT	CCTGCTGTGG	AATCATAGAA	GTCTTGCAGT	CTCCCAGGTT	180
TGTGTTCAAG	GTCTTCATAT	TCAGATGCTT	GAAGAATCAT	TTCACATTGG	TCTAGCATTC	240
AATCGAG						247

- (2) INFORMATION FOR SEQ ID NO:180:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 315 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:180:

GAATTCGGCC	AAAGAGGCCT	AGTCAAGTTC	ATTTCCCAGA	GTCTTAAGAC	TAAGTTCTGC	60
CTCCTCATTG	CAGGTGTGCC	GAGAGTTTTT	TTTGAACAAC	AAAAATTACT	AAGGAACCTC	120
ACTACCTTTG	GCGGTAGAAT	TAGAAAACAG	ATTCAGCAGT	CACCTACTCC	CCTTCAGTAA	180
TTCGAGACAA	TTATTTTTCT	CCTGACACAA	CATCAGGTCC	CATGAAAAAT	GACACCGTGC	240
CTGGTGTTTT	TGGGTTCTTT	AATGCTTCTT	TTAGAGCCAC	ATTTTTCTTT	TCAAACCGAG	300
TTCCCATCGC	TCGAG					315

- (2) INFORMATION FOR SEQ ID NO:181:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:181:

GAATTCGGCC	AAAGAGGCCT	AATTTTTCTT	CACGTTCTTT	ATCACCACCA	TGGTTATGTT	60
GGCTGCCCTG	GCTCACCATT	TGTTTTACTG	GGATGTTTGG	TTTATATATA	ATGTGTGTTT	120
AGCTAAGGTA	AAAGGCTACA	GGTCTCTTTC	CACATCCCAA	ACTTTCTATG	ATGCTTACAT	180
TTCTTATGAC	ACCAAAGATG	CCTCTGTTAC	TGACTGGGTG	ATAAATGAGC	TGCGCTACCA	240
CCTTGAAGAG	AGCCGAGACA	AAAACGTTCT	CCTTTGTCTA	GAGGAGAGGG	ATTGGGACCC	300
GGGATTGGCC	ATCATCGACA	ACCTCGAG				328
(T) THIRDDAY	MITON BOD OF	TO TO 100	n			

- (2) INFORMATION FOR SEO ID NO:182:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 123 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:182:

GAATTCGGCC AAAGAGGCC	r agttgtggaa	AAGAAAGACT	GTGAGGGTAG	GCACAAGAGC	60
ACTCAAATGT CCCAGGTAG	A GAAAACAACA	TGTATGATGG	CCCAGAAGGA	GGCAAGTCTC	120
GAG					123

- (2) INFORMATION FOR SEQ ID NO:183:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 311 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:183:

GAATTCGGCC	AAAGAGGCCT	ACTTGGACAA	GTAGAAAGTG	GATGACCCAG	GCTCCGTTAC	60
ATATACTTGG	ATTCCAGCTG	GGACCTAGAT	TTGCTGAGGA	CGGAAGCCAA	GGACACAGGA	120
ACATGTGGCT	GCTCCCAGCT	CTACTCCTTC	TCTGCCTCTC	AGGCTGTTTG	TCTCTGAAGG	180
GCCCCGGCTC	TGTGACTGGC	ACTGCGGGGG	ACTCTCTGAC	AGTGTGGTGT	CAGTATGAGA	240
GCATGTACAA	GGGATATAAC	AAGTACTGGT	GCCGAGGACA	GTACGACACG	TCATGTGAGA	300
GCTCACTCGA	G					311

- (2) INFORMATION FOR SEQ ID NO:184:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 130 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:184:

GAATTCGGCC AAAGAGGCCT AGTTCAATCT GTAACAAGCC TTCTTCAATT TCCTCTCCAC 60 ATACCCTGCA TAGACTTTAA GATTCCTCTG CTCGATGCTA ATAAGAAGAC ACACCCCCT 120

CGTTCTCGAG 130

- (2) INFORMATION FOR SEQ ID NO:185:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 416 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:185:

GAATTCGGCC	AAAGAGGCCT	AGGAGGGGA	AGAGAGTCCG	TTTTGCAGAA	GATGAAGAAA	60
AGAGTGAAAA	TTCCTCGGAG	GACGGTGACA	TAACGGATAA	GAGTCTTTGT	GGAAGTGGTG	120
AAAAGTACAT	CCCACCTCAT	GTGAGGCAAG	CTGAGGAGAC	AGTGGACTTC	AAGAAAAAGG	180
AAGAACTAGA	AAGC TTGAAG	AAACATGTAA	AAGGTCTACT	TAACAGGTTG	AGTGAACCCA	240
ACATGGCTTC	CATCAGTGGG	CAGCTGGAGG	AACTGTACAT	GGCCCACAGC	AGAAAGGACA	300
TGAATGACAC	CCTGACCTCC	GCTCTCATGG	GTGCCTGCGT	CACTGCCTCG	GCCATGCCCA	360
GCAGACTGAT	GATGGAGCAT	GTTCTCTTAG	TCAGCATCCT	TCACCACTTA	CTCGAG	416

- (2) INFORMATION FOR SEQ ID NO:186:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 344 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:186:

GAATTCGGCC	AAAGAGGCCT	ACTACATTTT	TACCTAAATT	TATAGAAAAT	CAATTCGGAT	60
TGACATCCAG	CTTCGCAGCT	ACTCTTGGAG	GGGCTGTTTT	AATTCCTGGA	GCTGCTCTCG	120
GTCAAATTTT	AGGTGGCTTC	CTTGTTTCAA	AATTCAGAAT	GACATGTAAA	AACACAATGA	180
AGTTTGCACT	GTTCACATCT	GGAGTTGCAC	TTACGCTGAG	TTTTGTATTT	ATGTATGCCA	240
AATGTGAAAA	TGAGCCATTT	GCTGGTGTAT	CTGAATCATA	TAATGGGACT	GGAGAATTGG	300
GAAACTTGAT	AGCCCCTTGT	AATGCCAATT	GTAACGTACT	CGAG		344

- (2) INFORMATION FOR SEQ ID NO:187:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 488 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:187:

60	GCACCAGCCT	CAAGATGCAA	ACCAGGAAGT	ATCTACAAGC	AGAGCCTAAA	GAATTCGGCA
120	CCAGACTATG	TGCCCATGAC	AGAATCAAGG	GTCTCAGCCA	GAAACAGGGG	TCAGGGACAA
180	TCACGACCCA	GGGTGGTCAT	ACCATGCAAA	AAAAATCAGG	CTTGGCCTTC	AGAATATCAC
240	CCCTGCTGGT	CACCCAGGTC	CCTCAGACTC	TGCAGGCCGC	CCCAGCCCAG	CGAGCCAAGT
300	CTCTGCATCA	GGCCTTTGTC	TCCTGGCCCT	CTGTACATCC	CATCCTGAGC	TGTACAGAGC
360	CTGGGCTTTA	CAAGGAGCTG	CTGAGATGTC	GTGAAGAATG	CTTCATCATG	TCCTGTCAGC

AAAGGGAGCT TTGGAATGTC TCAAACTCCG TACAAGCATG CGAAGAGAGA CAGAAGAGAG

GCTGGGATTC GACTCGAG	CGTTCAGCAG AGCATCACCA TGGTCAGGAG CAAGATTGAT AGATTAGAGC	480 488
(2) INFORMA	TION FOR SEQ ID NO:188:	
(i) S	SEQUENCE CHARACTERISTICS: (A) LENGTH: 163 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:188:	
GTATGGCTCC	AAAGAGGCCT AGGTCAGATG CATTAAAACA TATCAAAAATG TTACAAAAAT CTTGCTGAGG CCCTGTCAGA TTATGTTAGA TGAGTAAACG CATCAGTGTG ACCAAACGTT GAATCAAGTC ATGTACTCTC GAG	60 120 163
(2) INFORMA	TION FOR SEQ ID NO:189:	
(i) £	SEQUENCE CHARACTERISTICS: (A) LENGTH: 310 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:189:	
TCTGCCTCCA . GTACTTTGTA . TGTGCTCAGC .	AAAGAGGCCT ACCTGCTCAT ACCTGTGGCC AAAAGCATGA TGCCCCAGGC ATTCTACCAT CTTCTTCAT CTTTCTTTT TATCAGGTCT CTGCCCTCCT CTTAGATTCT CCTCTGCCAA GCCCATTCAG ACTGTGACTG GTAGGAGTGC TTTCCACTTG AGTGTTTATC CAAGAAGTTG GATAACCCTC TCAAGTTATG CAGTGCGCCT CAGTCTATGG GGATGCATTC CACTCACCCT TGGGCCTAGG	60 120 180 240 300 310
(2) INFORMA	TION FOR SEQ ID NO:190:	
(i) s	SEQUENCE CHARACTERISTICS: (A) LENGTH: 516 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: CDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:190:	
AAGGCTTGGC TTTCTGACAT AATGAAGTGA TTGTGTATGG GTGCGTCCTA TGTTCTTGGA	TTCATGGCCT AGGGCCTCAG TCTTTTTACT TTTGCGGCTG TGTTTCTCTG ATTAGTAGAT TGAAAAGAAT AACCATCTAG GGAAATGTGA ATTCAGTTTC TCTGCTCTCT ACAAGGGGAT ATTATGTACA CATAAACCTA CTTCCAAAAT GGCCTAATTC CTTACTCTTC AGAGAGCCCA CTGTGGAAGT GTCACTGACC GCTGCCCTTC ATGGCTCTGG GAGTCATTAT AAAGGGCAGC ATTTGGCGTG AGCCAGTGTT TCTCGGCTCT GTTCCTTAAA CATGTGTTAG TGTTAATAGA AAAAAAAAA AAAAACAGC ATTCTGAGGT CAAACATGCT CAGAAAGCTT CTACGCTTCT CGTACACATT TCATATTAAA GATTTTGGAA AGTCCTGCAA	60 120 180 240 300 360 420 480

(2) INFORMATION FOR SEQ ID NO:191: (1) SEQUENCE CHARACTERISTICS: (A) LEMOTH, 139 base pairs (B) TYPE; nucleic acid (C) STRANDEDMESS; double (D) TOPOLOGY; linear (11) MOLECULE TYPE; CDNA (X) SEQUENCE DESCRIPTION; SEQ ID NO:191: GANTICESC TYCATEGECT ACTRICTAGE ATMACAGAIT AMGALATEGT ACCACAGAT AMACACATEGT CONCACATETY AMACACATEGT CONCACATETY AMACACATEGT CONCACATETY AMACACATEGT CONCACATETY AMACACATEGT ACCACAGAT AMACACATEGT CONCACATETY AMACACATEGT CONCACATETY AMACACATEGT ACTIONISCOA ACTIONISCOA CONGAGAGOTO AMACACATETY GENERAL TATACACACACG ACACAGATGG AGGTATATA GAAGAACGAT ATTORICTA TATACACAGAG CONCACAGATG AAGACAGATG AAGACAGAT ATTORICTA TATACACAGAG (C) INFORMATION FOR SEQ ID NO:192: (1) SEQUENCE CHARACTERISTICS; (A) LEMOTH; 382 base pairs (B) TYPE; nucleic acid (C) STRANDEDMESS; double (D) TOPOLOGY; linear (11) MOLECULE TYPE; CDNA (X1) SEQUENCE DESCRIPTION; SEQ ID NO:192: GAATICEGCC TICATEGCCT AMACAGAGAGG ACATATAGAG GAAGGATTOT ATACTITCT GOTAAAACAT ACACAGATAGT TATACTITACAGAG CONCACACCA AAGACAGAT ATACTAGAG CONCACACCA AAGACACTAG ATCTACTAGAG CONCACACCA AAGACACTAG ATCTACTAGAG CONCACACCA AAGACACTAG ATCTACTAGAT CONCAGACCA CAAGACACTAG ATCTACTAGAG CONCAGACCA AAGACACTAG ATCTACTAGAGT CONCAGACCA CAAGACACTAG ATCTACTAGAGT CONCAGACCA CAAGACACTAG ATCTACTAGAGT CONCAGACCA CAAGACACTAG ATCTACTAGAGT CONCAGACCACCACCACCACCACCACCACCACCACCACCACCA		
(1) SEQUENCE CHARACTERISTICS: (A) LENGTH; 319 base pairs (B) TYPE; nucleic acid (C) STRANDEDNESS; double (D) TOPOLOGY; linear (11) MOLECULE TYPE; cDNA (X1) SEQUENCE DESCRIPTION; SEQ ID NO;191; GAATTCOGCC TICATOGCCT ACTIGCTAGA TAGACAGATT AAGAATGTTG AAGACATGUT GCAGAGATTCT AATACACATTT TOGATOGCAC ACTAGAAGCC CAAGAGGGGG ATAGCACTTTT GCAGAGATTC AAAAGAATAG TACTTGATCC CAAATCTACT ATGTGTCATA TATTCAAGAGG CTACACACTAG AGAGGACACACACAGAGAGAGAGAGAACACAACAGAGAGAACACAACA	TACAGAGCCC TGTCTAATAT TGCCACAGCC CTCGAG	516
(A) LENGTH: 319 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:191: GAATTCGGCC TYCATGGCCT ACTTGCTAGA TAGACACGAT AAGAATGTTG AAGACATGGT CCAGGTTTATT AATACACATTT TOGATGGAC AGTAGAAGCC CAAGGAGGTG ATAGCACTTT GCAGAGATTG AAAAGAATAG TACTTGATGC CAAATCTACT ATTGTGTCATA TATTCAAGGG CTACCACATG AGTAGACAGC CACAGAGAGG AGAAGAAGAT ATAGAAGTGTC CTATAGGATCT TACCACAGCC ACACAGAGGG AGGAGAAGAAGAACAAT ATGAAGTGTC CTATAGGATCT TACCAGACGC ACACAGATGG AGGTTATATA GAAGACAGAT ATGAAGTGTC CTATAGGATA AATCTCGAG (2) INPORMATION FOR SEQ ID NO:192: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 182 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192: GAATTCGGCC TYCATGGCCT AAGCAGAAGG ACATATTAGA GAAGGATTGT ATAGTTTTCT GGTAAAAGAT CACGAGAGATATT TACATGTTC CCCCAGACCCA AATAGACTG AGTGGTCACC ATGCTCACAGT CACAGATGT ATAGTTTTCT ACAGGTATAAGAT AGACGAGAAGG ACATATTAGA GAAGGATTGT ATAGTTTTCT AGGTATAAGAT AGACGAGAAGG ACATATTAGA CCTGGAAGAGT GTTGAGGTATA AGTGGTCCC AACCAGACTA TATAGTAGT AGACTAGACAC ATAGGAGAACGA ATAGGACACA TTCTCAGGCT ACCACATACT CATAGATTCT CCCAGATCC ATAGGAACAG AATAGACGA (X1) SEQUENCE CHARACTERISTICS; (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (A) SEQUENCE DESCRIPTION: SEQ ID NO:133: GAATTCGGCC TYCAAGAGT ATATTGTT AAGAGAACC TAACATCTAA TTTTUANAAT (X1) SEQUENCE DESCRIPTION: SEQ ID NO:133: GAATTCGGCC TYCAAGAGA ATATTAGTT AAGAGACAC TAACATCTAA TTTTUANAATA AGTTTTTAT TACCAGAGACA ATATTAGTATA TACTTTTTAT AAAAGACACAC TAACAATCAAAAAAAAAA	(2) INFORMATION FOR SEQ ID NO:191:	
GAATTCGGCC TCATGGCTA ATTGCTAGA TAGACAGATT AAGAATGGT AAGACATGGT CTAATGGCT TCATGGCTA ATTGCTAGA TAGACAGATCA ATTGCTAGA TAGACAGATGT AAAAAGAATG TATTCATAGC CAAAACACACA ATTGGCTCA ATTGCTAGA TAGACATGTT 120 GCAGAGATG AAAAGAATGA TATTCATGC CAAAACACACA TATTGTGTCA TATTCAAGAG CTACACACACAG ATTGCACACCG ACACACACAGA AGGATGATATA GAAGAACGAT ATGAAGTCT AAAAAGATGA AACTCCAGAG AGGACAGATG AGGATATATA GAAGAACGAT ATGAAGTCT AAAAAGATGAA AACTCCAGAG AGGACAGATG AGGATATATA GAAGAACGAT ATGAAGTCT AAAAAGTGAA AACTCCAGAG AGCACACAGAG AGGATATATA GAAGAACGAT ATGAAGTCT AAAAAGTGAA AACTCCAGAG AGCACACAGAG AGGATATTAGA GAAGAACGAT ATGAAGTCT CACAACAGATG AGGACACACACACACACACACACACACACACACACACA	(A) LENGTH: 319 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
GAATTCGGCC TCATGGCTA ACTGCTAGA TAGACAGATT AAGAATGTTG AAGACATGTT CCAGTTATT AATAACATTT TCGATGGCAC AGTAGAAGCC CAAGAGGGTG ATACCATGTT GCAGAGATTG AAAAGAATAG TATTCATGC CAAAATCTACT ATTCTAGAGA CTCACCACTG ATGGGCTGCT TTCCTCTTTGG CCTCGCACATG GGTGTCATCA GATCATGTG CTATGGAATC TACACAGCG ACACAGATGG AGGTTATATA GAAGAACGAT ATGAAGTGTC TAAAAAGTGAA AATCTCGAG (1) INFORMATION FOR SEQ ID NO:192: (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192: GAATTCGGCC TCATGGCCT AAGCAGAAGG ACATATTAGA GAAGGAATTGT ATAGTTTTCT GGTAAAAGAT GACAGTGAAT TIATATGGGGG ATGGAATGG GATGGAATGAT ATAGTTTTCT AGTGGTCC AGCCAAACTC TATAGTATCT GGAATAAGGA GATGGAAGAC TTCCAGAGGT TTATCTTTAT CTATTCTTGT CAACAGTATG TACATGTTC CCAGAGAGGT GTGGAATACTA ACAGTTTAAT GAATTTACTC CTATACAGTT CCCAGAGTAC ATTGCGTATAAA CACATTAAT GAATTCACT CTATACAGTT CCCAGAGTAC ATTGGGATAC GATGAACATCA TATCCTCAG CCCAACTCC AAATAACTGT ACACTTATAT GAATTCACT CTATACAGTT CCCAGAGTAC ATTGGGATAC GATGAACATCA TATCCTCAG CCCAACTTCT CCAGAGTTC CTCAGGCT CCCTGGCCTC (1) SEQUENCE CHARACTERISTICS: (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193: GAATTCGGCC TCATGGCCT AATATTTTTA AAGCGAAAGC TAACTCTAA TTTTGAAAAT TTTTATTGGG ACAGGATAT TATATAATAA ATCTTTTATTT TTTTATATATAAAAA (Xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:	(ii) MOLECULE TYPE: cDNA	
CCAGTITATT ANTARCATT TOGATGGCAC AGTAGRAGGC TATAGCATTT GCAGGAGTTG ANTAGCATA TATTGATC GCAGGAGTTG ATGCATAGAGG CTCACCACTG ATGGGCTG TTCTCTTTGG CCTGCCACTG GGTGTCATCA GTATCATGGAGG CTCACCACTG ATGGGCTGT TTCTCTTTGG CCTGCCACTG GGTGTCATCA GTATCATGG CTATGGAATT TACCAGGCC ACCAGATGG AGGTTATATA GAAGAACGAT ATGAAGTGTC 300 (2) INFORMATION FOR SEQ ID NO:192: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANBEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192: GAATTCGGCC TTCATGGCCT AAGCAGAAGG ACATATTAGA GAAGGATTGT ATAGTTTTCT GGTAAAAGAT GACAGTGAT TTCATGGCG ATGGATTAGC CGTGGAAGGT GTTGAGATATA AGTGGTCTCC AGCAAACTC ATAGTTACT GAAATGAGC TTCTCAGGCT ACAGTTTAAT GAACTGTATC TCAACAGTATG CCCCAGCCCC AAATAACTGT ACAGTTTAAT GAAGTTCACT CTATCAGATT CCCAGAATCC ATTGGAAATT GCTGTAACAG CATATCCTCA ATGCCCATCA ATTCTCACAG TCCAACTCT CCATGGCCT CTCTGCCTCT GCTGATCTGT GAACTTCTCG AG (2) INFORMATION FOR SEQ ID NO:193: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANBEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE CHARACTERISTICS: (A) LENGTH: ATAGTAGATA ATACTTTAGTT GTAACACTCTA ATTTTGAAAAT GAATTCGGCC TCCAGCCC AATATTTTA AAGCGAAAGC TAACTCTAA TTTTTGAAAAT GAATTCGGCC TCCAGGCCC AATATTTTA AAGCGAAAACC TAACACTCAA TTTTAACACTCAA GGTTTTTTAA TATAATAAATA ATCTTTAGTT GTTAAACCAT TAAACATCAA GATTTTTATGG AGCAGGAATA TATAATAATA ATCTTTAGTT GTTAAACCAT TAAACATCAA GGTTTTTTATCG ATTGTTTCTA TCCCTCCTCC CCCAAAAAAAA AAAAACCTCC TACAAATAAAA GAATTCAGGC TCCAAAAGAA AAAAAAAAAAAAAAAAAA	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:191:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANBEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192: GAATTCGGCC TTCATGGCCT AAGCAGAAGG ACATATTAGA GAAGGATTGT ATAGTTTTCT GGTAAAAGAT GACAGTAAT TGTATGGGCC ATGGATTACC CGTGGAAGGT GTTGAGTATA AGTGGTTCC AGCCAAACTC TATAGGTACT GGAATAAGA AGTAGAACTC TTCTCAGGCT ACAGTTTAAT CATACTTGT CAACAGTATG TACAGTGTC CCCCAGCCC AAATAACTGT ACAGTTTAAT GAATTAGATT TCCAGGAATCC ATTGGAAAT GCTGTAACAG CATATCCTCA ATGCCCATCA ATTCTCCACG TCCAACTTCT CCATGGCCTC CTCTGCCTCT GCTGATCTGT GAACTTCTC AG (2) INFORMATION FOR SEQ ID NO:193: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANBENNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193: GAATTCGGCC TCATGGCCT AATATTTTA AAGCGAAAGC TAACTTCTAA TTTTGAAAAT TTTTATTGGG AGCAGGATAT TATAATAATA ATCTTTAGTT GTTAAACATCAA 186 GGTTTTTTCA ATTGTTTCTA TGCCTCCTCC CTCAAAAAAA AAAAACCTCC TACAATAAAA 187 GGTTTTTAAAGA GAGAAAGAC ATATTATGGG AAAGCCACTG CTCTGTTTCA CTAAAATAAAA	CCAGTTTATT AATAACATTT TGGATGGCAC AGTAGAAGCC CAAGGAGGTG ATAGCATTTT GCAGAGAGTTG AAAAGAATAG TATTTGATGC CAAATCTACT ATTGTGTCTA TATTCAAGAG CTCACCACTG ATGGGCTGCT TTCTCTTTGG CCTGCCACIG GGTGTCATCA GTATCATGTG CTATGGAATC TACACAGCCG ACACAGATGG AGGTTATATA GAAGAACGAT ATGAAGTGTC	120 180 240 300
(A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192: GAATTCGGCC TTCATGGCCT AAGCAGAAGG ACATATTAGA GAAGGATTGT ATAGTTTCT 60 GGTAAAAGAT GACAGTGAAT TGTATGGGCG ATGGATTAGC CGTGGAAGGT GTTGAGTATA 120 AGTGGTCTCC AGCCAAACTC TATGGTTACT GGAATTAGCA ACTAGGAACC TTCTCAGGCT 180 TTATCTTTAT CTATTCTTGT CAACAGTATG TACAGTGTTC CCCCAGCCCC AAATAACTGT 240 ACAGTTTAAT GATGTTCACT CTATACAGTTC CCACAGTCC ATTGGAAATT GACTATACAG ACTAGTTCACA ATTCTCTCA AGCCATCA ATTCTCCACG TCCAACTTCT CCATGGCCTC CTCTGCCTCT 360 GCTGATCTGT GAACTTCTCC AG 382 (2) INFORMATION FOR SEQ ID NO:193: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193: GAATTCGGCC TCATGGCCT AATATTTTTA AAGCGAAAGC TAACTTCTAA TTTTGAAAAT 6TTTTATTGGG AGCAGGATT TATAATAATA ATCTTTAGTT GTTAAACCAT TAAACATCAA 120 GGTTTTTAC ATTGTTTCTA TCCCTCCTCC CTCAAAAAAA AAAAACCCCC TACAATAAAA 186 CTGAAAAATT GCCAAAAGAC ATATTAGTGG AAAAGCCAAT CTCCTTTTAC ACAAATAAAA 186 CTGAAAAAATT GCCAAAAAGAC ATATTAGTGG AAAAACCACTC TTCCTTTTAC ACAAATAAAA 186 CTGAAAAAATT GCCAAAAAGAC ATATTAGTGG AAAAGCCAAT TTGCAAAAAAA CACAATAAAA 166 AGTATAAAACACACAC AGAAAAAAAAACCCCC TACAATAAAA 166 AGTATAAAACC AGAAAAAAAACACCCC TACAAATAAAA AAAAACCCCC TACAAATAAAA 166 AGTATAAAACC AGAAAAAAAACCCACTA CTCCTCTTTTCA ACAAATAAAA 166 AGTATAAAACCACACACCAC CTCCTCTCTTTCA CACAATAAAA 166 AGTATAAAACCACCAC ATATTAATGGG AAAAACCCACTA CTTCCTTTTCA ACAAATAAAA 166 AGTATAAAACCACCAC ATATTAATGG AAAACACCACTA CTTCCTTTTCA ACAAATAAAA 166 AGTATAAAAACCACACACACACACACACACACACACACAC	(2) INFORMATION FOR SEQ ID NO:192:	
GAATTCGGCC TTCATGGCCT AAGCAGAAGG ACATATTAGA GAAGGATTGT ATAGTTTCT GGTAAAAGAT GACAGTGAAT TGTATGGCG ATGGATTAGC CGTGGAAGGT GTTGAGTATA AGTGGTCTCC AGCCAAACTC TATGGTTACT GGAATAAGAG AGTAGGAACC TTCTCAGGCT TTATCTTTAT CTATTCTTGT CAACAGTATA TACATTGTGC CCCAGACCCC AAATAACTGT ACAGTTTAAT GATGTCACT CTATACAGTT CCCAGAATCC ATTGGAAATT GCTGTAACAG CATATCCCTA ATGCCCATCA ATTCTCCACG TCCAACATCT CCATGGCCTC CTCTGCCTCT GACTTCTG GAACTTCTC AG (2) INFORMATION FOR SEQ ID NO:193: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOFOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193: GAATTCGGCC TTCATGGCCT AATATTTTTA AAGCGAAAGC TAACTTCTAA TTTTGAAAAT TTTTATTGGG AGCAGGATAT TATAATAATA ATCTTTAGTT GTTAAACCAT TAAACATCAA GGTTTTTTAC ATTGTTTCTA TGCCTCCTCC CTCAAAAAAAA AAAAACCTCC TACAATAAAA AGGATATAAAGC AGAGAAGTCC TCTTGGGGC AAAAGGCCAAT TGGCAAAAAAG CTAAAGAACA AGTATTAAAGC AGAGAAGATC CTCTTGGGGC AAAAGGCCAAT TGGCAAAAAG CTAAAGGAACA 300	(A) LENGTH: 382 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
GAATTCGGCC TTCATGGCCT AAGCAGAAGG ACATATTAGA GAAGGATTGT ATAGTTTCT GGTAAAAGAT GACAGTGAAT TGTATGGCG ATGGATTAGC CGTGGAAGGT GTTGAGTATA AGTGGTCTCC AGCCAAACTC TATGGTTACT GGAATAGAGA AGTAGGAACC TTCTCAGGCT 180 AGTGGTCTTAT CTATTCTTGT CAACAGTATAG TACATGATGC CCCCAGCCCC AAATAACTGT ACAGTTTAAT GATGTTCACT CTATACAGTT CCCAGAACTC ATTGGAAATT GCTGTAACAG GCTGATCCTC ATGCCCATCA ATTCTCCACG TCCAACTTCT CCATGGCCT CTCTGCCTCT 360 GCTGATCTGT GAACTTCTCG AG (2) INFORMATION FOR SEQ ID NO:193: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193: GAATTCGGCC TTCATGGCCT AATATTTTTA AAGCGAAAGC TAACTTCTAA TTTTGAAAAT TTTTATTGGG AGCAGATAT TATAATAATA ATCTTTAGTT GTTAAACCAT TAAACATCAA GGTTTTTTAC ATTGTTTCTA TGCCTCCTCC CTCAAAAAAA AAAAACCTCC TACAATAAAA AGTATTAAAACA GAGAAAGAC ATATTATGGG AAAAGACCACTG CTTCGTTTAC ACAAATGAAG AGTATTAAAACA AGAGAAAGTCC TCCTTGGGGC AAAAGACCACTC CTTCGTTTAC ACAAATGAAG AGTATTAAAACA AGAGAAAGTCC TCCTTGGGGC AAAAGACCACTT CTACAAGAAAA AGTATAAAACA AGAAAAGACAAATGAAGAC AAAATGAAAG CTAAAGGAAAAA AGTATAAAACACACA AGAAAAAAA AAAAACCCCC TACCAATAAAA AGTATTAAAACA AGAAAAAAAAAACACCTCC TACCAATAAAAA AGTATAAAACA AGAAAAAAAAAAACACCCC TACCAATAAAAA AGTATAAAACA AGAAAAAAAAAACACCCC TACCAATAAAAA AGTATTAAAACACAAAAAAAAAAAACACCCC TACCAATAAAAAAAA	(ii) MOLECULE TYPE: cDNA	
GGTAAAAGAT GACAGTGAAT TGTATGGGCG ATGGATTAGC CGTGGAAGGT GTTGAGTATA AGTGGTCTCC AGCCAAACTC TATGGTTACT GGAATAAGAG AGTAGGAACC TTCTCAGGCT 180 TTATCTTTAT CTATTCTTGT CAACAGTATG TACATGTGTC CCCCAGCCCC AAATAACTGT 240 ACAGTTTAAT GATGTTCACT CTATACAGGT CCCCAGAATCC ATTGGAAAAT GCTGTAACAG 300 CATATCCTCA ATGCCCATCA ATTCTCCACG TCCAAGTTCT CCATGGCCTC CTCTGCCTCT 360 GCTGATCTGT GAACTTCTCG AG 382 (2) INFORMATION FOR SEQ ID NO:193: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193: GAATTCGGCC TTCATGGCCT AATATTTTTA AAGCGAAAGC TAACTTCTAA TTTTGAAAAT TTTTATTGGG AGCAGGATAT TATAATAATA ATCTTTAGTT GTTAAACCAT TAAACATCAA GGTTTTTTAC ATTGTTTCTA TGCCTCCTCC CTCAAAAAAA AAAAACCTC TACAATAAAA CTGAAAAATT GCACAAAGAC ATATTAGTG AAGACCACTG CTTCGTTTAC ACAAATAAAA AGGAAAAGC AGAAAGGC AAAAGGCAAT TGGCAAAAAA CCAAATGAAGG AGTATAAAGC AGAGAAGGC TCCTTGGGGC AAAAGGCAAT TGGCAAAAAA CCAAATGAAG	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:192:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193: GAATTCGGCC TTCATGGCCT AATATTTTTA AAGCGAAAGC TAACTTCTAA TTTTGAAAAT TTTTATTGGG AGCAGGATAT TATAATAATA ATCTTTAGTT GTTAAACCAT TAAACATCAA GGTTTTTAC ATTGTTCTA TGCCTCCTCC CTCAAAAAAA AAAAACCTCC TACAATAAAA CTGAAAAATT GCACAAAGAC ATATTAGTGG AAGACCACTG CTTCGTTTAC ACAAATGAAG AGTATAAAGC AGAGAAGTGC TCCTTGGGGC AAAAGGCAAT TGGCAAAAAG CTAAGGAACA 300	GGTAAAAGAT GACAGTGAAT TGTATGGGCG ATGGATTAGC CGTGGAAGGT GTTGAGTATA AGTGGTCTCC AGCCAAACTC TATGGTTACT GGAATAAGAG AGTAGGAACC TTCTCAGGCT TTATCTTTAT CTATTCTTGT CAACAGTATG TACATGTGTC CCCCAGCCCC AAATAACTGT ACAGTTTAAT GATGTTCACT CTATACAGTT CCCAGAATCC ATTGGAAATT GCTGTAACAG CATATCCTCA ATGCCCATCA ATTCTCCACG TCCAACTTCT CCATGGCCTC CTCTGCCTCT	120 180 240 300 360
(A) LENGTH: 474 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193: GAATTCGGCC TTCATGGCCT AATATTTTTA AAGCGAAAGC TAACTTCTAA TTTTGAAAAT TTTTATTGGG AGCAGGATAT TATAATAATA ATCTTTAGTT GTTAAACCAT TAAACATCAA GGTTTTTAC ATTGTTTCTA TGCCTCCTC CTCAAAAAAA AAAAACCTCC TACAATAAAA CTGAAAAATT GCACAAAGAC ATATTAGTGG AAGACCACTG CTTCGTTTAC ACAAATGAAG AGTATAAAGC AGAGAAGTGC TCCTTGGGGC AAAAGGCAAT TGGCAAAAAG CTAAGGAACA 300	(2) INFORMATION FOR SEQ ID NO:193:	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:193: GAATTCGGCC TTCATGGCCT AATATTTTTA AAGCGAAAGC TAACTTCTAA TTTTGAAAAT TTTTATTGGG AGCAGGATAT TATAATAATA ATCTTTAGTT GTTAAACCAT TAAACATCAA GGTTTTTAC ATTGTTTCTA TGCCTCCTCC CTCAAAAAAA AAAAACCTCC TACAATAAAA CTGAAAAATT GCACAAAGAC ATATTAGTGG AAGACCACTG CTTCGTTTAC ACAAATGAAG AGTATAAAGC AGAGAAGTGC TCCTTGGGGC AAAAGGCAAT TGGCAAAAAG CTAAGGAACA 300	(A) LENGTH: 474 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
GAATTCGGCC TTCATGGCCT AATATTTTTA AAGCGAAAGC TAACTTCTAA TTTTGAAAAT 60 TTTTATTGGG AGCAGGATAT TATAATAATA ATCTTTAGTT GTTAAACCAT TAAACATCAA 120 GGTTTTTTAC ATTGTTTCTA TGCCTCCTCC CTCAAAAAAA AAAAACCTCC TACAATAAAA 180 CTGAAAAATT GCACAAAGAC ATATTAGTGG AAGACCACTG CTTCGTTTAC ACAAATGAAG 240 AGTATAAAGC AGAGAAGTGC TCCTTGGGGC AAAAGGCAAT TGGCAAAAAG CTAAGGAACA 300	(ii) MOLECULE TYPE: cDNA	
TTTTATTGGG AGCAGGATAT TATAATAATA ATCTTTAGTT GTTAAACCAT TAAACATCAA 120 GGTTTTTTAC ATTGTTTCTA TGCCTCCTCC CTCAAAAAAA AAAAACCTCC TACAATAAAA 180 CTGAAAAATT GCACAAAGAC ATATTAGTGG AAGACCACTG CTTCGTTTAC ACAAATGAAG 240 AGTATAAAGC AGAGAAGTGC TCCTTGGGGC AAAAGGCAAT TGGCAAAAAG CTAAGGAACA 300	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:	
	TTTTATTGGG AGCAGGATAT TATAATAATA ATCTTTAGTT GTTAAACCAT TAAACATCAA GGTTTTTTAC ATTGTTTCTA TGCCTCCTCC CTCAAAAAAA AAAAACCTCC TACAATAAAA CTGAAAAAATT GCACAAAGAC ATATTAGTGG AAGACCACTG CTTCGTTTAC ACAAATGAAG AGTATAAAGC AGAGAAGTGC TCCTTGGGGC AAAAGGCAAT TGGCAAAAAG CTAAGGAACA	120 180 240 300

CAGGCAGGCT TAAGAGACAG GAAACATTTA GCATGTTGGT AAACCACTTT AGCACATCAG

CAAAAGCATA TAAACAGCTT TAGGATTGGA AATTATTGCC AGGGGGGACT CGAG

420

(2) INFORMAT	ION FOR SEQ ID NO:194:	
(i) SE	EQUENCE CHARACTERISTICS: (A) LENGTH: 499 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi) S	SEQUENCE DESCRIPTION: SEQ ID NO:194:	
TGCACATCTT C. TGATCCCTCT C. TGGAGATAAA A. AGAGAAAAGA T. AGGTAAAGAT G. AAGTGAAGAA A.	AGAAGAAA TGAAGAAAGA AAATGATGAA AAGAGTAGTT CAAGAAGTTC AAAATACGA GTGATAGAAG TAGCAAGACA CAAGCCTCTG TCAAAAAAGA CGTCTGAGA AATCTGAAAA AAAAGAAAGC AAGGATACTA AGAAAATAGA AGAAGAATG ATAATGGAGC AAGTGGCCAA ACATCAGAAT CGATTAAAAA AGAAGCGAA TAAGTTCCAA GAGTCCAGGA CATATGGTAA TACTAGACCA ATCATTGTA GACCATCAAG AAGAGGAAGA TATGAGAAAA TTCATGGAAG	60 120 180 240 300 360 420 480 499
(2) INFORMAT	ION FOR SEQ ID NO:195:	
(i) SI	EQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) N	MOLECULE TYPE: cDNA	
(xi) S	SEQUENCE DESCRIPTION: SEQ ID NO:195:	
CATTTCATAA A CTTTGTACCT A AAGATTACAG G AGTAACAAGC A	TGATTGAAA ACAGTAGTTG GTCTATGACT TTTGAGGAGA GGGAGAACCG AGGCCAGCA TGAGGTTGGA ACAAGAGAAT GATGACCTTG CCCATGAACT AAATTGCTC TACGGAATGA CTTGGATCAG GCAGAAGACA AGGCAGATGT	60 120 180 240 300 337
(2) INFORMAT	TION FOR SEQ ID NO:196:	
(i) S	EQUENCE CHARACTERISTICS: (A) LENGTH: 386 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:196:	
ATCCTCACTG G	CCATGGCCTA AAGGAAACTG ACAAATTATC CCCAGCTGCC AGAAGAAGAA ACGGCTTCC TGTTTCCTGT GGTTCATTAT CTGATTGGCT GCAGGGATGA ATTCATAGGA CTGATGATCC TCCTCACCTC TGCGTTTTCA GCCGGTTCAG	60 120 180
	155	

GACAAAGTCC AATGACTGTG CTGTGCTCCA TAGACTGGTT CATGGTCACA GTGCACCCCT

240

60 120

CCCCAAACCA	CAACGATGTG TGTGTACACT TTCATGAACT ACACTTGGGC CTGGGTTGCC TGTTCAGCCA CACGCCTACC AGTTCACCTA CCGTGTTACT GAATGTGGCA AGCTGTCATC CTCGAG	300 360 386
(2) INFORM	ATION FOR SEQ ID NO:197:	•
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 429 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:197:	
CCACTTATTC TAATCTACAA CACGCACACA TACATATGTG TGGCTTCTTT	TTCATGGCCT AGTTTTGTC TTTTTCTT TTTTGGTATT ATTTTGTTTG CTAAAATTCA TATTGCTATT AACCGTACAC ATCTTTCCAT GTTCTTATAA ACACTCTCCC CTTTCTGTAG CTCTCTCTGT CACACACCAC CACATGCACA CACACACACA CACACGCTGT GCACTCTCCT GAAGCATGTG TGTACATACA AGGGGTTTTA TGACTGTTTT ACCAAATTGT GTTCTTAATA TATACAATGT TTAGCCATTC AGAAGTTATT TCAGTCATGG AATGATCTCT AGCCATATAA GTAAGTTTCT TTCTTGGGGA AGAAGGGCGA ATGGTGATAG AGAAAATGGA	60 120 180 240 300 360 420 429
(2) INFORM	ATION FOR SEQ ID NO:198:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 349 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:198:	
GACACAGAAA GGAAGAACTC TCCCTGGATG TGAGCAACTG	TTCATGGCCT ACCAAGCTAT GCAGGAACAG TTGTCTAAGA ACAAAGAACT CTCCAGGTAG CCTCTGAGAG TGAGGAAGAG GAGGGAGGCA CAGAAGATGT CTTGTCCCTG ATGTAGTGAA TGAAGTGCAG ATGAATGCAG ATGGGCCGAA CTCAGGAGCTT GCACCAGTGA CACCAAAGAG GCTGCAACCC AGGAGGACCC CCAGAGCTTG AGGCCCATGG AGTTTCTGAA AGTGAGGAG AAGAAAGACC GAAGAAATTT TGTTGAGAGA ATTTGAAGAA AGGCTCGAG	60 120 180 240 300 349
(2) INFORM	ATION FOR SEQ ID NO:199:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:199:	

GAATTCGGCC TTCATGGCCT AGGGAAAGCT CCAACTTGCT TTACCTTTCT AAGATATCCC ATTTTCTCTA TACCATTTGT TGACTAATAT ATCTCTTGCC CACTGGTTTG TAACAGTGCC

TTGATGGATC TTTCCATCCC ATGGTACCCT TTACTATTAT TGTCTTCATT TTTATTACTA TTGTTATGCC CTTTTCTCT TCCGTGCACA TCTTCATGTT TGAACTCTAA AAACACCCG 3	80 240 800 812
(2) INFORMATION FOR SEQ ID NO:200:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 385 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:200:	
ATAATAGAGA GATATTCACA GTGAAATAGG AAAGAGCAGT ATAGGTGCAA AGACAAAAAG 1 CATGACACAG CTAGATACAG GGCAGCTGTT ATTGGTTTTG TATGGAGAAA ACCTGGAGAA 1 ATGGTGAGAG AAGGGGCAGA AGATGAGAGG GGCCAGATCA TGGAGTACCT GTTTGTGGCG 2 CTCAGGAGTT TAGATGTTAT CATGCAGATA ACTAGGAGCC ATTTGAGGAA CTTAAATACA 3 GGAGTGATAC CAGATTTATA TGTTTTTAAA ATGATTACTT GGTGGTAATT AAAGAAAAGA	60 .20 .80 .40 .60
(2) INFORMATION FOR SEQ ID NO:201:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:201:	
TTTTCCTTCT TGCCTTCTTT TTGATTACTT ACTTTCTACC ATTCTATGTT TTTCGTCACT AGTTTGAAAA TTGTATACTT TGTTTTTATT CTTTCAGTGG TTACCCTAGA AATTACAACA 1	60 20 80
(2) INFORMATION FOR SEQ ID NO:202:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 450 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: gDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:202:	
CAAGCATGAT TTGGATAGAG ACTGTGCTTT GTCACCTGAT GAGCTTAAAG ATTTATTTAA AGTTTTCCCT TACATACCTT GGGGGCCAGA TGTGAATAAC ACAGTTTGTA CCAATGAAAG AGGCTGGATA ACCTACCAGG GATTCCTTTC CCAGTGGACG CTCACGACTT ATTTAGATGT	60 120 180 240

	P	CT/US98/06956	
TCAAGCTTCA GCTGTTACAG TGACAAGAGA TAAAAAGATA TCAAAGAAAT GTGTTCAGAT GTAATGTAAT TGGAGTGAAA TCTTCAGGCT CTTCTTGGAG AAGACTCGAG			36 42 45
(2) INFORMATION FOR SEQ ID NO:203:			
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 558 base pairs(B) TYPE: nucleic acid(C) STRANDEDMESS: double			
(D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	203:		
ALL DESCRIPTION OF THE STREET AND ADDRESS OF	NIDOROGORO	}	
GAATTCGGCC TTCATGGCCT AACTGGTTTC TGGCTCGTGG AAGCCGTTGC CATTCCCAAG NAGCGCTGGG ATATGCTCCT			60 120
GTGAAGGTAT TTAATGCTTG TTCAACATTA GATTTCTGTT			180
TTTTCCATTA TGCGAANCTG TACGTGACCC TGAACAGTCT			240
AGTTTTTCTG CTGTTCTTAC TGCCAGTTGC ACAGATTCTT			300
AGGTCTCCAT CCAGGTTTTC AAATACTTCA CCTCCAACAG			360
CAGATCTCTA TCATATTATA AAGGGCATTT TGGCCCCAGT			420
TTAAAATGTC GAAGGGCATC ATTTGGTTCT CCAGTGTACC	AAAGATACAG	TCCTTTACAA	480
TACTGAAATC CTGGTTCCAA TTTTGCTCTG GAGNNACGTT	TCTCAGCCAT	TGAGAAAAAT	540
CTTGGGACAT CCCTCGAG			558
(2) INFORMATION FOR SEQ ID NO:204:			
(i) SEQUENCE CHARACTERISTICS:			
(A) LENGTH: 348 base pairs			
(B) TYPE: nucleic acid			
(C) STRANDEDNESS: double			
(D) TOPOLOGY: linear	•		
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	204:		
GAATTCGGCC TTCATGGCCT ACAAGTAGGG ACTGACTTCT	Cata Commona	N C N N N C C T C T	6
TCAACCACAC TCATTTCAAG CTCTGTCAGA ACAGCATCTG			12
TCTGGGATAC AGGAAGTATC CAGAGCTTTG GATATAAAAA			18
CAGCCTGAAG AGACCTATAT AGACCCTACT ATGATACAAT			24
CTTCATAATC AAAGCTCCGA TAAGACAGCT AACATTGTGG			30
CTAGGAGTGG ATGTAATATC TAAAGAGACA ACTAGGAGGA		100101111	34
CIADAGIOG AIGIANIAIC IMMONO Nellidolidoli			
(2) INFORMATION FOR SEQ ID NO:205:			
(i) SEQUENCE CHARACTERISTICS:			
(A) LENGTH: 292 base pairs			
(B) TYPE: nucleic acid			
(C) STRANDEDNESS: double			
(D) TOPOLOGY: linear			

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:205:

CATGGCTCAA	GAAACCTAAA GACACCTACT TGAATTCCTT TGGTTGGCAG TCAAATGT	ra 180
	TITTCAAGCIT CTATTCITAG GCATGITACT TCCTTTIGGA AGTCAAAAC TAAGTAAGAG GGCTAACCAA ATATGIGCCA CACTAACTCG AG	CC 240 292
(2) INFORM	ATION FOR SEQ ID NO:206:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 220 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)) MOLECULE TYPE: cDNA	
(xi)) SEQUENCE DESCRIPTION: SEQ ID NO:206:	
CAGTGTGCCT CAAGAAACTT	TTCATGGCCT AAAATATTAA AATCTTTGAA GAAGAAGAAG TTGAATTTA GTCCCAGAGT TTGCAGATAG TGATCCTGCC AACATTGTTC ATGACTTTA ACAGCCTATT TAGATCTTAA CCTGGATAAG TGCTATGTGA TCCCTCTGA GTTATGCCAC CCATCTCGAG GCAGGTCTAG	A 120
(2) INFORM	ATION FOR SEQ ID NO:207:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)) MOLECULE TYPE: cDNA	
(xi)) SEQUENCE DESCRIPTION: SEQ ID NO:207:	
ATGCTAGAGA TCTAAACCAA GATTGTATTT TTATCCTCTA	CCAAGGCTAC TGGGAAACTA AAGCCAACTT CTAAAGATCA GGTATTGGC AAGCCAAAGT TAACATGCCA GCCAAGCCTG CTCCACCCAC TAAAGCAAC TGGGAGGGTC CGCTCCAGCC AAATTCCAGC CTGCATCAGC ACCTGCTGA CCAGCAGTAC AGAACCCAAA CCTGATCCAA AAAAGGCCAA AGCTCCAGG AAGCAAAAGG TGCACAAGGG AAGAAGATGC CAAGCAAAAC CAGCTTAAA	T 120 AA 180 SA 240
(2) INFORM	ATION FOR SEQ ID NO:208:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 316 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)) MOLECULE TYPE: cDNA	
(xi)) SEQUENCE DESCRIPTION: SEQ ID NO:208;	
GGAGACAAGT	TCTCCTCAGT GAACTGGCAG TACCAGTGTG GGCTTACCTG TGAGCACA	AG 60
	TCCCTATCAG TGCATCCGTC CAGTTTATTA AAATTCCTGC ACAGTTACC	
	. CAAGATTCCA GATCAATTAT ACAGAGTATG ACTGCAACAG AAATGAGG? : AGCTTCTATA TCCATGGACT CAGTATTATC AAGGGGAGCT GCATTCTC?	
	ACCICITATA TECATOGACI CAGIATIATE AAGGGGAGET GCATTETO	

316

CCCCGGACCA CTCGAG

- (2) INFORMATION FOR SEQ ID NO:209:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 517 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:209:

GAATTCGGCC AAAGAGGC	CT ATGTCCCTGT	CCATCTTAGA	GGCTGACCAA	GCCCAGCCAT	60
GGGTGGTCCA AATTGCTT	AG GTGGTCCCAA	TTGCTTGGCT	GGCCCAAGAG	ATGTCTGGTT	120
CTTAACAATA CAAGAGCC	TA TAGAAATTGC	TAAAGGGATT	TCAGCCACAA	CTGAAGCTCA	180
CCAAGAATGA GTTTTCTG	GA ACTGGTTAAA	GTGTCACAGT	AGGGAGTAAG	GAAATAAGAA	240
TCCCCACCAA ACATAAGA	GA ACAGAATGAT	AATAGTCCCT	ACTAGTCCAT	GACAAGGCTG	300
CCAATTAGGC ATT', AAAG	CT ATCAAAGATG	ATGCTGTGAG	GGACCTGGCA	ACTTTTGTAA	360
TAGTCTGACT TTAAATGT	IT TATTAATGGC	CAAGCAGCAA	ATATTTTAGG	ATTTGTAGGC	420
TATATGGTCT CTGTCCCA	AT TACTCCATTC	TGCTACTGTA	GCATAAAAGC	AGCGATACAT	480
CCTAAACCCG TCGATTGA	AT TCTAGACCTG	CCTCGAG			517

- (2) INFORMATION FOR SEQ ID NO:210:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 829 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:210:

GAATTCGGCC AAAGAGGCCT	AAGAACATGA	AACATCTGTG	GTTCTTCCTT	CTCCTGGTGG	60
CAGCTCCCCG ATGGGTCCTG	TCCCAGGTGC	AGCTGCAGGA	GTCGGGCCCA	GGACTGGTGA	120
AGCCTTCGGA GACCCTGTCC	CTCACCTGCA	CTGTCTCTGG	TGATTCCATC	AGTCATTACT	180
ACTGGACCTG GATCCGGCAG	CCCCCAGGGC	AGGGACTGGA	GTGGATTGGA	TATTTCTATT	240
CACCCGGGAA CTCCAACTAC	AATCCCTCCC	TCAAGAGTCG	AGTCACCATG	TCAGTCGACA	300
CGTCCACGAA CCAGTTCTCC	CTAAAACTCA	NTTCTGTGAC	CACTGCGGAC	ACGGCCGTCT	360
ATTACTGTGC GAGAGACCTA	TATTGCCGTG	GGGGAACCTG	CTACCCCGCG	AGACTTGACC	420
GCTGGGGCCA GGGAACCCGG	GTCATCGTCT	CGTCAGCCTC	CACCAAGGGC	CCATCGGTCT	480
TCCCCCTGGC ACCCTCCTCC	AAGAGCACCT	CTGGGGCACA	GCGGCCCTGG	GCTGCCTGGT	540
CAAGGACTAC TTCCCCGAAC	CGGTGACGGT	GTCGTGGAAT	TCAGGCGCCC	TGACCAGCGG	600
CGTGCACACC TTCCCGGCTG	TCCTACAGTC	CTCAGGACTC	TACTCCCTCA	GCAGCGTGGT	660
GACCGTGCCC TCCAGCAGCT	TGGGCACCCA	GACCTACATC	TGCAACGTGA	ATCACAAGCC	720
CAGCAACACC AAGGTGGACA	AGAAAGTTGA	GCCCAAATCT	TGTGACAAAA	CTCACACATG	780
CCCACCGTGC CCAGCACCTG	AACTCCTGGG	GGGACCGTCA	GTCTTCCTC		829

- (2) INFORMATION FOR SEQ ID NO:211:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 142 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:211:

r. Tryn Ryd y Arthur

GAATTCGGCC AAAGAGGCCT AGTTAATCTG ATAAATTCAC CATCAAT ATATAACTAC CCTGTTTTTT GAATACAGAT AATGCAAAAG AAAACCA TATATACCTT CCACCACTCG AG	
(2) INFORMATION FOR SEQ ID NO:212:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 555 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:212:	
GAAATTCGGC CAAAGAGGCC TAGTGGAATC ATTCTGCCAC ACCATTTCGTACAAACAA ACCACAGACA CTCCCATATA CACATGCTCC TCTATCCCCAAAACTAA ATTGGTCTTC AAGAGAGATG ATGGCTTTAA GAACAAACCCCAGGAAAAA TTATCTTTTC AAAATGAGGG AAGAGGAGGT TCACCATTCACAC ATCCTTAAGG ATTGTTGATA TCATTATTGT TAATCAACAGTGCGCTTCCAAGCCTCCCCCAAGCTCTCCCCCCCC	GCC AACTCTGGAA 120 AAT AGCCTTATCC 180 IGG TGGTTGATGT 240 gTG GATATGGTGT 360 ITG TTGTCAGCAC 360 AGT GATGAAATTA 420 ATA CAAACCTCGA 480
(2) INFORMATION FOR SEQ ID NO:213:	•
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 97 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:213:	•
GAATTCGGCC AAAGAGGCCT ACGAGAAGGG CGGTGTGTAC AAAGGGC ACGCAAGCTT ATGACCCGCA CTTACTGGGA ATTCCTC	AGG GACTTAATCA 60 97
(2) INFORMATION FOR SEQ ID NO:214:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 487 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:214:	
GAATTCGGCC AAAGAGGCCT AAGAAGAAAT TGGTAGATTG CGAGAAG AAAACGTAAT CAGGAACTTT TACAAAGCCA GCTGACTGAA AAGGACT TATGAAATCT TCCCAAACAT CTGGCACAAA TGAACAGTCT TCAGCAA AGATTCTGAA CAAGTTGCAG AATTAAAACA GGAACTGGCA ACTTTAA	CTA TGATTGAAAA 120 TAG TTTCAGCTAG 180

CTCACAATCT	GTGGAGATCA	CCAAACTACA	GACAGAAAAG	CAGGAACTGT	TACAGAAAAC	300
AGAAGCGTTT	GCAAAATCAG	TTGAGGTACA	AGGAGAGACC	GAGACTATAA	TAGCCACCAA	360
AACTACTGAT	GTAGAAGGAA	GACTGTCAGC	ATTATTACAA	GAGACCAAAG	AGTTAAAGAA	420
TGAAATTAAA	GCTCTGTCTG	AGGAAAGAAC	TGCCATTAAA	GAGCAGCTGG	ATTCATCTAA	480
TAGTACC						487

- (2) INFORMATION FOR SEQ ID NO:215:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 584 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:215:

GAATTCGGCC	AAAGAGGCCT	ACTGGGCCTT	TCAGCACCTG	CTCCAGCTTC	ACCTTGGTGA	60
ACATCAGGTT	GAAGTTCTCA	GGGTGCTCGG	TGATGGCCAT	GTTGACAACA	TCCAGGGCAT	120
GCTGGTGGTG	CTTCTGGGCA	GAGAAGAGCA	GTGCCAGCAG	GTGGAGGGCG	TGGGCATCAT	180
CCTTGCGTAC	CTTCAGGGCC	TCCTGCAGCT	GCTCCATGGC	ACTGGAGATC	TGTCGGACGA	240
GGGCCAGCTG	CAGCGAGACA	TAGAGGATGA	CCTGGGGGTC	ACTGGGCGCC	AGCTGCTGAG	300
CCCTCTCCAG	CGTCTGCAGT	GCCTTCCGGT	GCAATTCATC	TTGCTTGGAC	TTCAGGGTGG	360
CGTCGGTGGC	CTGCAGGCTA	TAGGTGAGAC	CCAGAGCCAG	GTAGCCCTTG	GGGAGGAACT	420
CCCCGGCTTC	CTCTCCGAGG	CTGATCACCA	TCATGGCAAA	GTGCTCTGCT	TCCTCTAGCC	480
AGCGAAGGGA	CCCGATGCAG	ACCTTCGCGG	CCATCAGGGG	CACGGTGGGG	TCCGAGGGCC	540
GCAACTTCAC	ACACTCCCGC	AGCAGGGACA	CAGCGTAGGC	TGAC		584

- (2) INFORMATION FOR SEQ ID NO:216:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 532 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:216:

GAATTCGGCC	AAAGAGGCCT	AGACCTGCCC	TAAAGATAGA	GTCTTGATGC	ACCGTCTACC	60
TTGTCCCCAA	CCAAGAGTGA	GTAGTGCACA	GAAGTCTCCT	GGCACCCTGG	GAATCCTGCA	120
TTTTTAATGG	ACGAGCAGGG	CAGGAAAGAA	AAAAAAAACC	CAAACCCCAT	CACTCTGCCA	180
GCCCCTGTGA	CCAAAGCAGC	CCAAATCAGT	TACCTTGACA	ACTCTCATGC	ACAGACTGCA	240
CCAGCCTGTG	TTGCAAACAT	CACTGCCCCG	CTTCTAACAG	GAAGAGATAC	TCTTTTGGGG	300
GTCTTGCAGG	GCCCAGGACC	AGAGCCCCTT	CTACCCAGGG	CCCTTCCAAA	GGCAAAGCAC	360
AGAGTCACAT	TTGGGCGTGG	CATGAGAGGG	AAATAAAGAG	ATTTGGCTGT	AGTGGGAGGG	420
AGGTTTCAGT	GCTTTTTCTG	GGGACATTGG	TGCCTATCTC	TATTCTGAGA	GTTGTTCTCC	480
TCATAGGACA	CCATAAATCG	CATCCAGGAC	CTGCTGGCTG	AGGGTACTCG	AG	532

- (2) INFORMATION FOR SEQ ID NO:217:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 269 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:217:

GAATTCGGCC AAA	GAGGCCT AGTGTGTCCG	GGTCTTATAC	AAAAACAACA	CAGTGAATGA	60
AGGAATAAAT ATT	TATTGAA TGGAAAATCA	GCAAAGGAAA	AAATTGTATA	ATTGTCAATG	120
ACAATGGGAA GCA	CATAGTG AGGCTATGAG	TGATTTGGAA	ATCATGAGCG	TGCAGTGTTT	180
TGTTCACGCA TTT	CGGTTGT GTTTTCAGAA	AGTAACTACA	ACATAGCATC	ATGTAGCAGA	240
ATTGCTGGTT GTA	AGCAAAA AGGCTCGAG				269

- (2) INFORMATION FOR SEQ ID NO:218:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 675 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:218:

GAATTCGGCC	AAAGAGGCCT	AATTCTTTTT	CTTTTTAATT	TGAAGAAAA	TCATCAGTCT	60
TGGAATACAG	AAGAGAAACT	AGAAATATAC	GTATTTTGTT	TCACATTTGA	ACAGTCATTC	120
TTGAGGAATA	CTCCATACCT	GAGTAGACAG	CCATGTGGCC	ATCGCAGCTA	CTAATTTTCA	180
TGATGCTCTT	AGCTCCAATA	ATTCATGCTT	TCAGCCGTGC	CCCAATTCCA	ATGGCTGTGG	240
TCCGCAGAGA	GCTATCCTGT	GAGAGCTATC	CTATAGAGCT	TCGCTGTCCA	GGAACAGACG	300
TCATCATGAT	AGAAAGTGCC	AACTATGGCA	GGACTGATGA	CAAAATTTGT	GACTCTGACC	360
CTGCTCAGAT	GGAGAATATC	CGATGTTATC	TGCCAGATGC	CTATAAGATT	ATGTCTCAAA	420
GATGCAATAA	CAGAACCCAG	TGTGCAGTGG	TGGCAGGTCC	TGATGTTTTT	CCAGACCCGT	480
GTCCAGGAAC	CTATAAATAC	CTTGAAGTGC	AGTATGAATG	TGTCCCTTAC	ATTTTTCTTT	540
GTCCTGGACT	ACTAAAAGGA	GTATACCAGA	GTGAACATTT	GTTTGAGTCC	GACCACCAAT	600
CTGGGGCGTG	GTGCAAAGAC	CCTCTGCAGG	CATCTGACAA	GATTTATTAT	ATGCCCTGGA	660
CTCCCTACAG	AACTG					675

- (2) INFORMATION FOR SEQ ID NO:219:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 414 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:219:

60	ATTCTTAGTT	TTTTTTGAGA	TTGAACAAGT	ACTCCCTGTT	AAAGAGGCCT	GAATTCGGCC
120	AATCCACAAT	CATCTAAAAA	TTTTGAGAAG	ACACTGAAAA	TTTAGCTTAC	TTAGTTTTTG
180	ATTAAGGTTA	TATAAAAAGA	TCATTCCTTC	ATACTTTAAG	AGAGGGGACA	TAGTGCAAAA
240	AGACAGCAGA	GCCTTCTGAA	TTTCCTATTT	AAATATATAG	ATTTTTAAGC	CTAAATGCCA
300	CTATCAGCTT	AACACATGTA	AGGTTTGAAC	AGGTTTAACA	GTTCAATATT	TATAAAAATA
360	AGAATATAAC	AATAAACTTG	CTTGGAAAAA	TTTAGCTACA	GCAAAAATAT	TATTTTACCT
414	CGAA	CCTCTTTGGC	CTTATTTAGG	TGCAAGAATA	TAAGGCCAGA	TTCACATTTC

- (2) INFORMATION FOR SEQ ID NO:220:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 120 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:220:

GACCGTCGAT TGAATTCTAG ACCTGCCTCG AGATTGGAGA CAGAAGGTCC CGGGAGCAGA 60 AAGCCAAACA GGAGCGGGAG AAAGAACTGG CAAAAGTCAC TATCAAGAAG GAAACTCGAG 120

- (2) INFORMATION FOR SEQ ID NO:221:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 333 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:221:

GAATTCGGCC	AAAGAGGCCT	AAGCAGCAGC	TGCTTATATG	CATGTGAACA	GCTGGGGAAT	60
TAATTTGGTA	TGCATTCTCA	GGAGCCACTC	ATCTGCTGGC	AGAGGTAGCA	GAAGAATGCC	120
CTTAGTGTAA	GTCCTCTACA	ACCATACACC	AAATGTGCTC	CCTGCATTTC	AAATTCCATT	180
GTAGAAAGTC	TCTGATAATC	TCACTTATAC	CATGAGCCAT	TCCTCAGTAT	CTGTCCTCTT	240
CCTGTTAGTG	TTCTACAATT	CCTTTCTCCT	TAATTTTTCT	CCGCTTTACA	AAATGTCACA	300
CAGACAAGTG	CATAATACTT	AAACAAGCTC	GAG			333

- (2) INFORMATION FOR SEQ ID NO:222:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 817 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:222:

GAATTCGGCC	AAAGAGGCCT	AAGAAAAGCA	CCCTTATTAA	GAATTGCAGC	AAGTAAGCCA	60
ACAAGGTCTT	TTCAGGATGA	TTTTCTTATA	TCAAGTGGTA	CATTTCATTT	TATTTACTTC	120
AGTTTCTGGT	GAATGTGTGA	CTCAGTTGTT	GAAGGACACC	TGCTTTGAAG	GAGGGGACAT	180
TACTACGGTC	TTCACACCAA	GCGCCAAGTA	CTGCCAGGTA	GTCTGCACTT	ACCACCCAAG	240
ATGTTTACTC	TTCACTTTCA	CGGCGGAATC	ACCATCTGAG	GATCCCACCC	GATGGTTTAC	300
TTGTGTCCTG	AAAGACAGTG	TTACAGAAAC	ACTGCCAAGA	GTGAATAGGA	CAGCAGCGAT	360
TTCTGGGTAT	TCTTTCAAGC	AATGCTCACA	CCAAATAAGC	GCTTGCAACA	AAGACATTTA	420
TGTGGACCTA	GACATGAAGG	GCATAAACTA	TAACAGCTCA	GTTGCCAAGA	GTGCTCAAGA	480
ATGCCAAGAA	AGATGCACGG	ATGACGTCCA	CTGCCACTTT	TTCACGTACG	CCACAAGGCA	540
GTTTCCCAGC	CTGGAGCATC	GAAATCTTTG	TCTCCTTAAA	ACATCTGAGA	GTGGATTGCC	600
CAGTACACGC	ATTAAAAAGA	GCAAAGCTCT	TTCTGGTTTC	AGTCTACAAA	GCTGCAGGCA	660
CAGCATCCCA	GTGTTCTGCC	ATTCTTCATT	TTACCATGAC	ACTGATTTCT	TGGGAGAAGA	720
ACTGGATATT	GTTGCTGCAA	AAAGTCACGA	GGCCTGCCAG	AAACTGTGCA	CCAATGCCGT	780
CCGCTGCCAG	TTTTTTACCT	ATACCCCAAC	GCTCGAG			817

- (2) INFORMATION FOR SEQ ID NO:223:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 587 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:223:

GAATTCGGCC	AAAGAGGCCT	AGGAGATACA	TCATCATATC	ACGGAAAGAG	ATGCAGATAG	60
ATCTTTGACC	ATACTTGATG	AACAGTTATA	CTCATTTGCG	TTTTCCACCG	TGCACATTAC	120
GAAGAAAAGA	AATGGAGGTG	GGAGTTTAAA	TAACTATTCC	TCCTCCATTC	CATTGACTCC	180
CAGCACCAGC	CAGGAGGACC	TTTATTTCAG	TGTTCCTCCC	ACTGCCAACA	CACCCACGCC	240
CGTTTGCAAG	CAGTCCATGG	GCTGGTCCAA	CCTGTTTACA	TCTGAGAAAG	GGAGTGACCC	300
AGACAAAGGG	AGGAAAGCCC	TGGAGAGTCA	CGCTGACACC	ATCGGGAGCG	GCAGAGCCAT	360
CCCCATTAAA	CAGGGCATGC	TCTTAAAGCG	AAGTGGGAAA	TGGCTGAAGA	CGTGGAAAAA	420
GAAATATGTC	ACCCTGTGTT	CCAATGGCGT	GCTCACCTAT	TATTCAAGCT	TAGGTGATTA	480
TATGAAGAAT	ATTCATAAAA	AAGAGATTGA	CCTTCGGACA	TCTACCATCA	AAGTCCCAGG	540
AAAGTGGCCA	TCCCTAGCCA	CATCGGCCTG	CGCACCCATC	TCTCGAG		587

- (2) INFORMATION FOR SEQ ID NO:224:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 534 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:224:

GAATTCGGCC	AAAGAGCCTA	AGTAGTTGCT	GCCTTTCTTC	AGATCAGGTT	ACCACAATGC	60
CTCCCCGCTG	CTGACGCTTC	ATCCCCCACA	CCTCCAGCCC	CAGTTACCTG	GAGCTTCTCA	120
GAACCCACTT	TGCCGGTGCT	AAAACACAAG	AGGGGGTGAA	AGTGGCTGCC	AGTAATGGCC	180
AGAAACCAAC	CACCAGAGGC	CAGGCTGAAA	GACAAGCTCC	GGGTGTCCAG	GGGCTGACGG	240
GCCAACCATG	TGGCAGGTCC	CAGGCCCCAC	CCACTGCGCC	ATCCGTCTCT	GAGCTCCACA	300
GTGGTCCCAC	TAATGGGAAC	CTCCTCTAGG	GAGAGTGATA	CTGCACCTTC	ACCCGTAGGA	360
CTCATATTTA	TAACAATGTG	TAATGGCTGT	AGCAAAAAGC	CCTTGTTTCT	AGATGTAAAT	420
GGTCAAAGAA	ACAAGCGCTC	TATTGTTTTG	AATAAAATAG	TTCAAATGAG	TCCTGTATCA	480
TTGTATCTCC	TATTCTGGAT	TAGTGCCTTT	TGGACAGTAG	ACTGTAACCT	CGAG	534

- (2) INFORMATION FOR SEQ ID NO:225:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 118 base pairs(B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:225:

GCTCCACTCT CTCCCTATCC ATTTGTAAGA ACAGGCTCCC CTCGCCGAAT ACAGTTGTCT 60
CAAAATCATC CTGTCTACAT TTCCCCACAT AAAAATGAAA CAATGCTTTC TCCTCGAG 118

- (2) INFORMATION FOR SEQ ID NO:226:
 - (i) SEQUENCE CHARACTERISTICS:

- PCT/US98/06956 (A) LENGTH: 582 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:226: GAATTCGGCC AAAGAGGCCT AAATTTTAGT AGAGATGGAA TTTCACCATA TTGGCCAGGC CGGTCTCAAA CTCTTGACCT CAAGTGATCT GCCCGCCTCG GCCTCCCAAA ATGTTGAGAT 120 TACAGGCGTG AGCCACCATG CCTCTCTTAC ATTCTTTTCT TCTGTTCACT ACAGCCGTGG 180 AGAGCTCCGG GTTGTCCTGC ACATGTGCAC TGCCCTCTCT TTTATGGACC TTTTAGGCTG 240 GCTGCACCCT CCGTCTGTGT CACCCTCCTG CTCCTCCTCC ACCTGGCTAG TTCCTGTTGG 300 CCACTTTTGG AAATTCATGC CAGTCCAGTC CACCCTGAGT ACATCCTCTT TCTGTGTCAC 360 TGAGCTCACT ATGCTGGGTT TTATCTATGT CTCCCTCGCA ACTAGATCAT TCACGTCTTG 420 AAGTTAGGCA TCATGCGTTC TTCATTTCTG TACCTCCCAA CTCAATGCTT AGCACCCAGC 480 AGGGGCTCAA GACTGTGTG GGAATGAAGG ATTCGTGTGA AAATGCAGGG AGATGGAAGG 540 CTGAGCGTTT CTGTTCCTTG ACCATTCCCG GGTTGGCTCG AG 582 (2) INFORMATION FOR SEQ ID NO:227: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs
 - - - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:227:

GAATTCGGCC	AAAGAGGCCT	AAAAACTTAT	AAATAAGTGA	GACTACTGCC	CCCTAGCCTA	60
AAATTCATTC	CCTGCGCTCA	CTCAACATCA	TAGTTCTTTA	GGAAGACAAG	TTGTTCTATA	120
GCATAAAGAT	ACAACCTATT	TAGATAGTCT	AAAGATTCTC	CTCTGTTTCT	CAAATACAGT	180
CAGTTATGCA	GCTCAAAATG	CCTCTCATTT	TCCTGCTTTT	TTTTCTTCTA	CTATTGTTGC	240
CTCCAGGCTT	TGCAGAAACA	CATGTTATTC	TCCCCCTAAA	ATCTGTTCCT	CTTCTAGTTT	300
TCTCTCTGCC	AGCAATGGCA	CCACACAGTC	TTTTGGTTTT	GCACCAGAGA	ATTAGAGATG	360
AACCCCTCAT	CTCTAATCTA	TCACAAGTTT	CCTCAGATTT	AAACTCTCAA	ATCAAGATGT	420
TTCTCACCAT	TTCCATTACT	ATTGTCCCCA	GCTTTCTCGA	G	,	461

- (2) INFORMATION FOR SEQ ID NO:228:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 133 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:228:

GCCTAAACCG	TCGATTGAAT	TCTAGACCTA	TCTCGAGAAA	GAGTTGTTCT	GGAAAGAAAT	60
GAAGAAAAGA	GCAGAACCAA	TCTCAAGCAG	CCAAGTGGTG	AAGTTGGATG	TATGTGACCC	120
TACGTCTCTC	GAG					133

(2) INFORMATION FOR SEQ ID NO:229:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 482 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:229:

GAAAGGGATC	AAAAAGAAAA	AGTGATCGAA	TGGAATCTAC	TGATACCAAA	CGACAAAAGC	60
CTTCTGTCCA	TTCAAGACAA	CTGGTTTCTA	AGCCACTGAG	CTCATCTGTT	AGCAATAACA	120
AAAGAATAGT	TAGTACAAAA	GGAAAGTCAG	CCACAGAGTA	TAAAAATGAG	GAATATCAAA	180
GATCTGAAAG	AAACAAGCGT	CTAGATGCTG	ATCGGAAAAT	TCGTCTATCA	AGTAGTGCCT	240
CCAGAGAACC	TTATAAGAAT	CAACCTGAAA	AAACCTGTGT	CCGGAAAAGG	GATCCTGAAA	300
GGAGGGCCAA	ATCTCCTACG	CCAGATGGTT	CTGAGAGAAT	TGGGCTTGAA	GTGGATAGAC	360
GTGCAAGCAG	ATCCAGCCAG	TCTTCTAAGG	AAGAAGTGAA	CTCTGAAGAA	TATGGCTCTG	420
ACCATGAGAC	TGGCAGCAGT	GGTTCTTCTG	ATGAGCAAGG	GAACAACACT	GAAAATCTCG	480
AG						482

- (2) INFORMATION FOR SEQ ID NO:230:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 501 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:230:

GAATTCGGCC	TTCATGGCCT	AGGGGATAAA	TGTAAGCTTG	TTAAAGTAAG	CACCACACCA	60
TGTTTCTGTC	TCCCCAGCAC	CCAGCACAGT	GCTGTGAACC	TTGGCAGATG	CTAGATAAAT	120
GTGTGTTGAA	TGAATGTGCC	TATGAAGCCA	CAAAGATGCC	ACATGTTAGT	ATATCAGTGA	180
GAGGTGACTC	CACAGTGCTC	TCTGGAGAAG	CAATATGAGT	GACTGAAGAG	TGGGGCCTTT	240
TGCTTTTGCC	TGGATATAGG	GGTGCTCTTC	TACTGTAATT	GGGTGTGGAA	AAACTCTGGC	300
TTTATGGTAT	TCCATTAGGT	TCTTTTCATT	TAAAGTAGTC	TTAAAATCAA	AGTATCCAAT	360
ATTTTAAAGC	CACAAAGTAG	ATTACATAAT	TAGCAGAGAT	TTTAGTCAGT	AAAATGTTAG	420
AAATCAAACT	ATAAGAAAAT	TCAAGTCCTT	TATTTTGTGT	CTTGGGTATA	TGTCATTATT	480
TTAAATTCCA	CAGCTCTCGA	G				501

- (2) INFORMATION FOR SEQ ID NO:231:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 326 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:231:

GAATTCGGCT	TCGATTGAAT	TCTAGGACTT	GACAGAATTC	GAGTTATCCT	TCTCAGAACA	60
TGTGCAGAGT	CTCTTTTTGC	CTCACCATGT	GGTCCTGTGC	TCTTTCAGGT	GGGAGTTTTG	120
GGGCCTCCAG	GGCAGCAGGC	ACCACCTCCA	TATCCCGGCC	CACATCCAGC	TGGACCCCCT	180
GTCATACAGC	AGCCAACAAC	ACCCATGTTT	GTAGCTCCCC	CCCAAAGACC	CAGCGGCTTC	240
TTCACTCAGA	GGCCTACCTG	AAATACATTG	AAGGACTCAG	TGCGGAGTCC	AACAGCATTA	300

PCT/US98/06956

GCAAGTGGGA TCAGAGCAAT CTCGAG

- (2) INFORMATION FOR SEQ ID NO:232:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 367 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:232:

GAATTCGGCC	TTCATGGCCT	AATCAGAAGC	TTTTCAAAAT	TCCGTCTTCA	AGAAGAAACA	60
CCCGTGGAGG	AAGAAGACAT	TATACAAAAC	AAATTTAGAA	ACTGGGATCA	TGAGTGGAAA	120
AACAAAGGCA	AGAAGGGCTG	CCATGTTTTT	TAGACGTTGC	TCTGAAGACG	CCAGCGGTAG	180
CGCCAGTGGC	AATJCTTTGT	TATCAGAGGA	CGAAAATCCT	GATGCGAATG	GGGTAACTCG	240
ATCATGGAAG	ATTATTCTAA	GTACAATGCT	TACACTGACT	TTTCTTCTTG	TAGGACTCCT	300
AAATCATCAG	TGGCTTAAAG	AAACAGATGT	TCCTCAGAAA	TCCAGACAAT	TATATGCCAT	360
GCTCGAG						367

- (2) INFORMATION FOR SEQ ID NO:233:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 320 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:233:

GAATTCGGCC	TTCATGGCCT	AAAGAAGAAT	TGACACCTCT	TGGAGTCCAC	TTGGCACGAT	60
TACCCGTTGA	GCCACATATT	GGAAAAATGA	TTCTTTTTGG	AGCACTGTTC	TGCTGCTTAG	120
ACCCAGTACT	CACTATTGCT	GCTAGTCTCA	GTTTCAAAGA	TCCATTTGTC	ATTCCACTGG	180
GAAAAGAAAA	GATTGCAGAT	GCAAGAAGAA	AGGAATTGGC	AAAGGATACT	AGAAGTGATC	240
ACTTAACAGT	TGTGAATGCG	TTTGAGGGCT	GGGAAGAGGC	TAGGCGACGT	GGTTTCAGAT	300
ACGAAAAGGA	CACACTCGAG					320

- (2) INFORMATION FOR SEQ ID NO:234:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 358 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:234:

GAATTCGGCT	TCATGGCCTA	CGATGAGGCT	GCTGTCATTT	GTGGTGTTGG	CTCTATTTGC	60
TGTCACTCAA	GCAGAGGAAG	GAGCCAGGCT	TTTGGCTTCC	AAATCACTGC	TGAACAGATA	120
CGCCGTGGAG	GGACGAGACC	TGACCTTGCA	GTACAACATC	TACAATGTTG	GCTCAAGTGC	180
TGCATTAGAC	GTGGAACTAT	CTGATGATTC	CTTCCCTCCA	GAAGACTTTG	GCATTGTGTC	240
TGGAATGCTC	AATGTCAAAT	GGGACCGGAT	TGCCCCTGCT	AGCAATGTCT	CCCACACTGT	300
GGTCCTGCGC	CCTCTCAAGG	CTGGTTATTT	CAACTTCACC	TCGGCAACAA	TCCTCGAG	358

- (2) INFORMATION FOR SEQ ID NO:235:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 513 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:235:

GAATTCGGCT	TCATGGCCTA	GTTGTACGTA	ATGTATTTAT	ATGTTAATTT	GTTATGTATA	60
TAGATGTGCA	AGTCTTGTCA	GAATTGGCCT	CAGTGTAGTT	AAAGGGCAGA	AGGGGAAGAT	120
ACTGACTAGT	CATAGAAATA	CCTCATTCGC	CTGTGGGAAG	AGAAGGGAAG	CCTCTTCAGG	180
GTGAGTGAAT	GGCAAAGCGG	TTGCTTCTGG	CTCCTCCTTC	CCCTGTGGTC	TTGGAAGTGT	240
GTGGAAGGCA	GGGACAGAGA	TGGAGGCCGA	GCCAATAGAC	TGAAGAGACC	ACAGCAATTG	300
GCTCCTCCAT	CTAGAGATTT	TCTTGGCAGT	ATTCCATGGG	ATGTTAAGCA	AAGGAAACCA	360
AAGGAATCGT	TTCAAATGGA	CTCATGGCTT	AGAAATCTTT	ATTCTTAGGG	CAGTCAGTAG	420
TATTCTAAAG	CTTTCTGACA	AGATAAAGGA	AGTCACCAAA	ATTTCTTTTT	TTAAATTGTA	480
TCTAATCCTC	AACAACAAAC	CAAAACTCTC	GAG			513

- (2) INFORMATION FOR SEQ ID NO:236:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 412 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:236:

GAATTCGGCC	TTCATGGCCT	ACTTGGAAAT	GTTTGATGCT	ACTCTGAAAG	ATCGAGAACT	60
GAGCTTTCAG	TCGGCTCCAG	GTACTACCAT	GTTTCTGCAT	TGGCTAGTGG	GAATGGTATA	120
TGTCTTCTAC	TTTGCCTCCT	TCATTCTACT	ACTGAGAGAG	GTACTTCGAC	CTGGTGTCCT	180
GTGGTTTCTA	AGGAATTTGA	ATGATCCAGA	TTTCAATCCA	GTACAGGAAA	TGATCCATTT	240
GCCAATATAT	AGGCATCTCC	GAAGATTTAT	TTTGTCAGTG	ATTGTCTTTG	GCTCCATTGT	300
CCTCCTGATG	CTTTGGCTTC	CTATACGTAT	AATTAAGAGT	GTGCTGCCTA	ATTTTCTTCC	360
ATACAATGTC	ATGCTCTACA	GTGATGCTCC	AGTGAGTGAA	CTGTCCCTCG	AG	412

- (2) INFORMATION FOR SEQ ID NO:237:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 337 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:237:

TTCATGGCCT	AGAGATATGC	TTCTTTGTAC	CAATATGGAA	AATCTAAAAG	AAAAAACCCA	60
CACTCAGCAC	TATGAATGTT	ATAGGTACCA	AAAACTGCAG	AAAATGGGCT	TTACAGATGT	120
GGGTCCAAAC	AACCAGCCAG	TTAGTTTTCA	AGAAATCTTT	GAAGCCAAAA	GACAAGAGTT	180
CTATGATCAA	TGTCAGAGGG	AAGAAGAAGA	GTTGAAACAG	AGATTTATGC	AGCGAGTCAA	240
GGAGAAAGAA	GCAACATTTA	AAGAAGCTGA	AAAAGAGCTG	CAGGACAAGT	TCGAGCATCT	300

TAAAATGATT CAACAGGAGG AGATAAGGAA GCTCGAG

- (2) INFORMATION FOR SEQ ID NO:238:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 750 base pairs

 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:238:

GAATTCGCGC	ATTCGGTACA	ACAAGAGAGA	TAAACGATGA	AACCGTTACA	TTATACAGCT	60
TCAGCACTGG	CGCTCGGACT	GGCGTTAATG	GGGAATGCAC	AGGCAGTGAC	GACCATTCCG	120
TTCTGGCATT	CTATGGAAGG	GGAACTGGGT	AAAGAGGTGG	ATTCTCTGGC	CCAACGTTTT	180
AACGCCGAAA	ACCCGGATTA	CAAAATTGTA	CCGACCTATA	AAGGCAACTA	CGAACAGAAT	240
TTAAGCGCGG	GGATTGCCGC	ATTTCGTACC	GGCAACGCGC	CGGCTATTTT	GCAGGTTTAT	300
GAAGTTGGCA	CCGCCACCAT	GATGGCGTCG	AAAGCCATTA	AACCGGTGTA	TGACGTGTTT	360
AAAGAGGCAG	GGATTCAGTT	CGATGAGTCG	CAGTTTGTGC	CGACGGTTTC	AGGTTACTAC	420
TCCGACAGCA	AAACGGGCCA	CTTACTCTCC	CAGCCATTCA	ACAGCTCGAC	CCCCGTTCTC	480
TATTACAACA	AAGACGCCTT	CAAGAAAGCA	GGATTAGACC	CGGAACAGCC	GCCGAAAACC	540 ⁻
TGGCAGGATC	TGGCGGACTA	TGCCGCGAAA	CTGAAAGCCT	CCGGCATGAA	GTGCGGCTAC	600
GCCAGCGGCT	GGCAGGGCTG	GATCCAACTG	GAAAACTTTA	$\tt GCGCCTGGAA$	CGGTCTGCCG	660
TTTGCCAGCA	AAAACAACGG	CTTTGACGGC	ACGGACGCGG	TGCTGGAGTT	CAATAAGCCG	720
GAGCAGGTGA	AACACATCGC	CATGCTCGAG				750

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- (2) INFORMATION FOR SEQ ID NO:239:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 490 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:239:

GAATTCGGCC	TTCATGGCCT	ACTTACAGAA	CCTATTCACT	GGGAAGGAAG	CCCTCATTAT	60
AATGATTTTC	ATTCTTATGT	GTGTTTCAGG	ACGACTGGGT	TTGGATTCAG	AAGAGGATTA	120
TTATACACCA	CAAAAGGTGG	ATGTTCCCAA	GGCCTTGATT	ATTGTTGCAG	TTCAATGTGG	180
CTGTGATGGG	ACATTTCTGT	TGACCCAGTC	AGGCAAAGTG	CTGGCCTGTG	GACTCAATGA	240
ATTCAATAAG	CTGGGTCTGA	ATCAGTGCAT	GTCGGGAATT	ATCAACCATG	AAGCATACCA	300
TGAAGTTCCC	TACACAACGT	CCTTTACCTT	GGCCAAACAG	TTGTCCTTTT	ATAAGATCCG	360
TACCATTGCC	CCAGGCAAGA	CTCACACAGC	TGCTATTGAT	GAGCGAGGCC	GGCTGCTGAC	420
CTTTGGCTGC	AACAAGTGTG	GGCAGCTGGG	CGTTGGGAAC	TACAAGAAGC	GTCTGGGAAT	480
CAACCTCGAG						490

- (2) INFORMATION FOR SEQ ID NO:240:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 425 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:240:

GAATTCGGCC	TTCATGGCCT	ACTTCTGGAC	TCTATAGAAC	CCACTGCCTC	CTGATGAAGT	60
CCCTACTGTT	CACCCTTGCA	GTTTTTATGC	TCCTGGCCCA	ATTGGTCTCA	GGTAATTGGT	120
ATGTGAAAAA	GTGTCTAAAC	GACGTTGGAA	TTTGCAAGAA	GAAGTGCAAA	CCTGAAGAGA	180
TGCATGTAAA	GAATGGTTGG	GCAATGTGCG	GCAAACAAAG	GGACTGCTGT	GTTCCAGCTG	240
ACAGACGTGC	TAATTATCCT	GTTTTCTGTG	TCCAGACAAA	GACTACAAGA	ATTTCAACAG	300
TAACAGCAAC	AACAGCAACA	ACAACTTTGA	TGATGACTAC	TGCTTCGATG	TCTTCGATGG	360
CTCCTACCCG	TTTCTCCCAC	TGGTTGAACA	TTCCAGCCTC	TGTCTCCTGC	TCTAGGATCC	420
TCGAG						425

- (2) INFORMATION FOR SEQ ID NO:241:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 461 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:241:

GAATTCGGCC	TTCATGGCCT	AACCAGAACT	AATTTGCTAA	GTCTTTTGTT	TAGTCCTGCA	60
AGACTGATGC	TTAATACACA	GTCTGTTCTC	CTGTGTCTAG	GTCAGGAACT	CCAGTTTGCT	120
TTTCTGTTTT	GTGTCCTGGT	AGCAGCTGTT	GAGTAACTTT	CATTGGAGGT	TGGGAAGGAA	180
GTGAGGAGAA	AGTGTTCTTG	TTTAGTGTTT	TATTTCCTAT	AATAGGATGC	TGCCTAACCC	240
AGTTCATCTC	TATGTCCTGT	TCACTGAATA	TTCCGGGTAA	TTGAAAGAAA	ATATAATGGA	300
TGGGCTCCAT	TAAAACCAGC	TCAAAAATAA	ATTCTTGTCA	GTAAAGATTT	CTTGTCAAGA	360
TGTCTTGGAT	TGCACTTTTG	TTGAGGAAAG	ACAGTGTAAA	TAGTTAAAGA	ATGTTGATAA	420
AATTGAAACA	TTTGGTTGTG	GAATTGTGTG	TGGTACTCGA	G		461

- (2) INFORMATION FOR SEQ ID NO:242:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 508 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:242:

GAATTCGGCC	TTCATGGCTT	ATGGACAAGG	AAGCATTCAG	AGĊATGGTGT	CATCTGACTC	60
CACATCACCA	GATTCTTCTT	TAACAGAAGA	ATCACGTTCT	GAGACAGCCA	GTAGTTTATC	120
CCAGAAGATT	TGTAATGGGG	GATTATCTCC	TGGTAACCCA	GGAGATTCTA	AGGACATGAA	180
GGAAATTGAG	CCCAATTATG	AAAGTCCCTC	TAGTAATAAT	CAGGATAAAG	ATTCATCACA	240
GGCTTCCAAA	AGCTCAATAA	AAGTTCCAGA	GACCCACAAA	GCAGTCCTTG	CTCTCCGATT	300
AGAAGAGAAA	GATGGCAAGA	TTGCTGTACA	AACTGAGAAG	GAAGAAAGTA	AAGCCTCTAC	360
AGATGTTGCT	GGGCAAGCAG	TAACCATAAA	CCTTGTCCCC	ACAGAAGAGC	AAGCAAAACC	420
TTACCGAGTT	GTGAACCTGG	AACAGCCATT	GTGCAAGCCA	TATACTGTCG	TGGATGTGTC	480
AGCAGCCATG	GCCAGTGAGC	ACCTCGAG				508
	CACATCACCA CCAGAAGATT GGAAATTGAG GGCTTCCAAA AGAAGAGAAA AGATGTTGCT TTACCGAGTT	CACATCACCA GATTCTTCTT CCAGAAGATT TGTAATGGGG GGAAATTGAG CCCAATTATG GGCTTCCAAA AGCTCAATAA AGAAGAGAAA GATGGCAAGA AGATGTTGCT GGGCAAGCAG TTACCGAGTT GTGAACCTGG	CACATCACCA GATTCTTCTT TAACAGAAGA CCAGAAGATT TGTAATGGGG GATTATCTCC GGAAATTGAG CCCAATTATG AAAGTCCCTC GGCTTCCAAA AGCTCAATAA AAGTTCCAGA AGAAGAGAAA GATGGCAAGA TTGCTGTACA AGATGTTGCT GGGCAAGCAG TAACCATAAA	CACATCACCA GATTCTTCTT TAACAGAAGA ATCACGTTCT CCAGAAGATT TGTAATGGGG GATTATCTCC TGGTAACCCA GGAAATTGAG CCCAATTATG AAAGTCCCTC TAGTAATAAT GGCTTCCAAA AGCTCAATAA AAGTTCCAGA GACCCACAAA AGAAGAGAAA GATGGCAAGA TTGCTGTACA AACTGAGAAG AGATGTTGCT GGGCAAGCAG TAACCATAAA CCTTGTCCCC TTACCGAGTT GTGAACCTGG AACAGCCATT GTGCAAGCCA	CACATCACCA GATTCTTCTT TAACAGAAGA ATCACGTTCT GAGACAGCCA CCAGAAGATT TGTAATGGGG GATTATCTCC TGGTAACCCA GGAGATTCTA GGAAATTGAG CCCAATTATG AAAGTCCCTC TAGTAATAAT CAGGATAAAG GGCTTCCAAA AGCTCAATAA AAGTTCCAGA GACCCACAAA GCAGTCCTTG AGAAGAGAAA GATGGCAAGA TTGCTGTACA AACTGAGAAG GAAGAAAGTA AGATGTTGCT GGGCAAGCAG TAACCATAAA CCTTGTCCCC ACAGAAGAGC TTACCGAGTT GTGAACCTGG AACAGCCATT GTGCAAGCCA TATACTGTCG	GAATTCGGCC TTCATGGCTT ATGGACAAGG AAGCATTCAG AGCATGGTGT CATCTGACTC CACATCACCA GATTCTTCT TAACAGAAGA ATCACGTTCT GAGACAGCCA GTAGTTTATC CCAGAAGATT TGTAATGGGG GATTATCTC TGGTAACCCA GGAGATTCTA AGGACATGAA GGAAATTGAG CCCAATTATG AAGTTCCCTC TAGTAATAAT CAGGATAAAG ATCACCAC GGCTTCCAAA AGCTCAATAA AAGTTCCAGA GACCCACAAA GCAGTCCTTG CTCTCCGATT AGAAGAGAAA GATGGCAAGA TTGCTGTACA AACTGAGAAG GAAGAAAGTA AAGCTCTTAC AGATGTTGCT GGGCAAGCAG TAACCATAAA CCTTGTCCC ACAGAAGAGC AAGCAAAACC TTACCGAGTT GTGAACCTG AACAGCCAT TATACTGTCG TGGATGTGTC AGCAGCCATG GCCAGTGAGC ACCTCGAG

- (2) INFORMATION FOR SEQ ID NO:243:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 323 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:243:

GAATTCGGCT	TCATGGCCTA	GGTTTTCTGT	ACATGGAGAT	TAAACTGTCT	TCCAAAGTGA	60
AGAGTTTATT	GTTCTAGATC	TTGAGCACAA	AGGTTGGTAT	ACGTTAATAA	AAAAAATAGC	120
AAGGGAAGAA	AATCATTTCC	TTCATACCAA	GTAAGAGAGC	ACTTATCATG	GTAGGCACTG	180
GCTTTGCAAT	TATGAGACCA	GTAGTAGAAA	TAGCTTTAGT	TTCCTCAATT	TTCCTGGAGT	240
ATTCTTCAGA	CTTTCTTTAC	ACTGCTCAAG	GTGGGGCGAG	TGGCAGGGCG	GACCCTGGCG	300
ACCTGACGCT	GCGGAGGCTC	GAG				323

- (2) INFORMATION FOR SEQ ID NO:244:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 396 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:244:

GAATTCGGCC	TTCATGGCCT	AGCTTCAGTA	GCAAATAAGG	ACATCATCTG	CTATAACCTA	60
CAAGCAGTTG	GACAGATATT	CTACATTTCC	TCATTTCTCT	ACACCGTCAA	TTACATCTGG	120
TATTTGTACA	CAGAGCTGAG	GATGAAACAC	ACCCAGAGTG	GACAGAGCAC	ATCTCCACTG	180
GTGATAGATT	ATACTTGTCG	AGTTGGTCAA	ATGGCCTTTG	TTTTCTCAAG	CCTGATACCT	240
CTGCTATTGA	TGACACCTGT	ATTCTGTCTG	GGAAATACTA	GTGAATGTTT	CCAAAACTTC	300
AGTCAGAGCC	ACAAGTGTAT	CTTGATGCAC	TCACCACCAT	CAGCCATGGC	TGAACTTCCA	360
CCTTCTGCCA	ACACATCTGT	CTGTAGCACA	CTCGAG			396

- (2) INFORMATION FOR SEQ ID NO:245:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 370 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:245:

GAATTCGGCC	TTCATGCTTA	GCCTCAGCTC	TTTCTTCTGG	GTTGTTTGTA	TTTTCTTTTC	60
TGTCCCAAAC	AGTTTCCCCC	ACAAAAAGAA	CTTTATGTCT	TTCTCTGTCT	TCCCTCAGTC	120
CTTCCAGTCA	GCAGCCTGTG	ATTGGGCTTT	TCCCCTCAGA	AACGAACAAT	CCAGAACCCA	180
CTGTTTAAAA	CAACTGTATT	TTGCCTTGGG	AAGTCCCATT	GCCTTCCCTG	AAAACATTAA	240
ACATTCCTCC	GATCCCCAGC	CTGAGTCTCT	CTGTCTCTGG	GCCCCATCCT	GCTCCACAGC	300
AGGGCTGGTG	TGTCCAGCAC	AGAGTGACCC	TCCGATGCCC	TTTCCCACCC	GCCGCCCTGC	360
CTCCCTCGAG						370

- (2) INFORMATION FOR SEQ ID NO:246:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 367 base pairs
 (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: CDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:246:

GAATTCGGCC	TTCATGCCTA	GAGAACTTGA	AGCTTTGCGG	CAGGAATTTA	AAAAGAAAGA	60
CAAGACGTTG	AAAGAGAATT	CCAGAAAGTT	GGAGGAAGAA	AATGAGAATC	TCCGAGCAGA	120
GCTACAGTGT	TGTTCTACAC	AACTGGAATC	CTCTCTCAAC	AAATACAACA	CCAGCCAGCA	180
AGTCATCCAA	GACTTGAATA	AAGAGATAGC	CCTTCAGAAG	GAGTCCTTAA	TGAGCCTGCA	240
GGCCCAGCTG	GACAAAGCTC	TGCAGAAGGA	GAAGCACTAT	CTCCAGACTA	CCATCACCAA	300
AGAAGCCTAT	GATGCATTAT	CCCGGAAGTC	AGCCGCCTGC	CAGGATGACC	TGACACAAGC	360
CCTCGAG						367

- (2) INFORMATION FOR SEQ ID NO:247:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 450 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:247:

GAATTCGGCC	TTCATGGCCT	ACGGCTTCAT	AGTAACTCTT	TGCCATATCT	CTAGCCAGCT	60
GCATAAAACG	TTCGCCATCA	GATGGAGACA	AAAGGTTTAA	AATACGCCTA	TAACCATCCA	120
TGGCCATTTT	ATGATCACCC	ATCTGTTCAT	AAAGGCTTGA	TCGCTCCCAC	AGATAACGGA	180
CATTAGTAGG	TTCATATTTA	AGAGCTTTTG	TATAGCAAAA	AATAGCCTGC	TTAATATTGT	240
CTTGTTCCAG	AGACATTTCT	GCCAGTCTAA	CCCATTCTTC	TGTGTCACTG	GGATTTAAAT	300
GCGCAGCAAT	CAACTCAAAC	TGCAATGATT	TTTCCATGTC	ACCTTGGTCC	TCATATATCA	360
TGGCTAGAGT	AGAGAATGGC	TCATAAGCCA	GAGGAGCTTG	TCTTATGATT	TCCATGCACA	420
TCAATATCGC	CTCTTCACGT	TCTCCTCGAG				450

- (2) INFORMATION FOR SEQ ID NO:248:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 408 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:248:

GAATTCGGCC	TTCATGGCCT	AACGAAACTG	ACGTCTACCT	CATGGGGCTG	CTGTGTGGGT	60
TTGGGAGGCA	AAAATCTATG	AAGGGTTTTT	TGAAATCCCA	TAGGTGCCAC	ATCTATGAGA	120
TGTTTGATAA	ATGTGAATAT	GCTTTTACAT	TTGGGCTTAT	CTAATTTGCA	ATAAGAGAGC	180
CTCTCTCTAT	CAACACCAGC	TTCTCTCTCG	GGCTGTTTGC	TCAGGGAAGG	CAAGAAAGCC	240
ACGTGCTGGC	CCTCTGCCTT	CTCTAAAGTG	CTGTTGGAGC	ATGGAGGAGC	TGGAGGAGAT	300
GGGGATGGAC	TGACAGCTAA	GAGGGCGGCT	GCTGGGACTA	GATAGTGGAT	GAAGAAAGAA	360
GGACGAGGAA	GCCGTGGGGC	AGCCTCTTCA	CATGGGGACG	AACTCGAG		408

- (2) INFORMATION FOR SEQ ID NO:249:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 562 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:249:

GCCCATGACA	GAGAGCAGTG	CCAAAGACAT	GGCGTACGAA	CATCTGATAG	ATGACTTATT	60
GGCTGCTCAG	AAGGAAATTC	TGTCTCAGCA	GGAAGTCATC	ATGAAGTTAA	GGAAAGACCT	120
TACCGAAGCC	CACAGCAGAA	TGTCGGATTT	GAGAGGGGAG	CTAAACGAGA	AGCAGAAGAT	180
GGAACTGGAG	CAGAACGTGG	TGCTGGTCCA	GCAGCAGAGC	AAGGAGCTGA	GTGTGCTCAA	240
GGAGAAGATG	GCCCAGATGA	GCAGCCTGGT	AGAAAAGAAA	GATCGGGAGC	TGAAGGCCCT	300
TGAGGAGGCA	CTCAGGGCTT	CCCAAGAGAA	ACACAGACTC	CAGCTGAACA	CAGAGAAGGA	360
ACAGAAGCCC	CGGAAGAAGA	CCCAGACGTG	TGACACCTCT	GTGCAGATAG	AACCCGTCCA	420
CACTGAGGCC	TTCTCCAGCA	GCCAAGAGCA	GCAATCCTTC	AGCGATCTAG	GGGTCAGGTG	480
CAAAGGGTCC	CGGCACGAGG	AGGTCATTCA	GCGTCAGALA	AAGGCCTTAT	CTGAACTTCG	540
AGCGCGAATT	AAAGAACTCG	AG				562

- (2) INFORMATION FOR SEQ ID NO:250:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 313 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:250:

GAATTCGGCC	TTCATGGCCT	ACCCAAACAG	ACAGAAAACG	CCACGAGGCA	AGTGTAGTCT	60
CTCACAGCCT	GGACCCTCTG	TCAGCAGTCC	ACATAGCAGG	TCCACAAAAG	GTGGCTCCGA	120
TTCCTCCCTT	TCTGAGCCAG	GGCCAGGTCG	GTCCGGCCGC	GGCTTCCTGT	TCAGAGTCCT	180
CCGAGCAGCT	CTTCCCCTTC	AGCTTCTCCT	GCTCCTCCTC	ATCGGGCTTG	CCTGCCTTGT	240
ACCAATGTCA	GAGGAAGACT	ACAGCTGTGC	CCTCTCCAAC	AACTTTGCCC	GGTCATTCCA	300
CCCTATGCTC	GAG ;					313

- (2) INFORMATION FOR SEQ ID NO:251:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 291 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:251:

GTCTTGACAA	AACCTAACTT	GCGCAGAAAA	CAAGATGAGA	TTGGCATGGC	TTTATTTGTT	60
TTTTTTTTTT	TGTTTTGGTT	TTTTTTTTT	TTTTGGCTTG	ACTCAGGAGA	TCCCTCCCCG	120
GGGCTCCCGC	CGGCTTCTCC	GGGATCGGTC	GCGTTACCGC	ACTGGACGCC	TCGCGGCGCC	180
CATTTCCGCC	ACTCCGGATT	CGGGGATCTG	AACCCGACTC	CCTTTCGATC	GGCCGAGGGC	240
AACGGAGGCC	ATCGCCCGTC	CCTTCGGAAC	GGCGCTCGCC	CAACTCTCGA	G	291

(2) INFORMATION FOR SEQ ID NO:252:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 384 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:252:

CGGGAAATGA	AGCGGAAGCA	GGCGGAGTCC	GAGAGGCCCA	TCTTGCCAGC	CAATCAGAAG	60
CTCATTACTT	TATCAGTGCA	AGATGCACCC	ACAAAGAAAG	AGTTTGTTAT	TAACCCCAAC	120
GGGAAATCCG	AGGTCTGCAT	CCTGCACGAG	TACATGCAGC	GTGTCCTCAA	GGTCCGCCCT	180
GTCTATAATT	TCTTTGAATG	TGAGAACCCA	AGTGAGCCTT	TTGGTGCCTC	GGTGACCATT	240
GATGGTGTGA	CTTACGGATC	TGGAACTGCA	AGCAGCAAAA	AACTTGCGAA	GAATAAAGCT	300
GCCCGAGCTA	CACTGGAAAT	CCTCATCCCT	GACTTTGTTA	AACAGACCTC	TGAAGAGAAG	360
CCCAAAGACA	GTGAAGAACT	CGAG				384

- (2) INFORMATION FOR SEQ ID NO:253:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 276 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:253:

GG	GACGTTGG	TGTTGAGGTT	GGCATACGTA	TCAAGGACAG	TAACTACCAT	GGCTCCCGAA	60
GT	TTTGCCAA	AACCTCGGAT	GCGTGGCCTT	CTGGCCAGGC	GTCTGCGAAA	TCATATGGCT	120
GT	'AGCATTCG	TGCTATCCCT	GGGGGTTGCA	GCTTTGTATA	AGTTTCGTGT	GGCTGATCAA	180
AG	AAAGAAGG	CATACGCAGA	TTTCTACAGA	AACTATGATG	TCATGAAAGA	TTTTGAGGAG	240
AT	'GAGGAAGG	CTGGTATCTT	TCAGAGTGTA	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:254:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 497 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:254:

GAGTTTGTTG GC	GCTTACCTT A	ATTTAATTA	AAAAGAAGTC	GGGGCTACCA	GGGGTTTCAG	60
ACGTGCTCGA TO	GGACACGTG A	ATTTGTAAAC	AGCCAAGATT	CTGGGGGACG	GGGGGGTGCC	120
TCGGTGGGGT TC	GACATTTGA (GTTACAGGGA	CTTAATAATG	GCCAGCCTTT	CACATCCCAT	180
GGGAAACCGC CC	ccccggc (CTTGGAGAAT	GGGGGTCCAA	GTGCCTATCC	CCCTTTGGAT	240
GTAAAATTCA TO	CGTTAGTAA A	ACATCATCCG	CCCAGCAACA	AGCAAAGCAC	ATCGCAAGAT	300
TAAAACAAAG AA	ATCCGCCGT (GAACAGAAGG	CCTCCATCTC	TGCTCTCAGG	CAGGTGTCCT	360
TCAGGGAGGA GO	CCTCAGGCA (GCTGTTCTAA	CCCTGCTGCC	AACGCCTGGG	CTGTTTCTGC	420
CGACAATCTT CT	FATTTCTCT /	AAAAGAGTAC	GCTGAACAGC	TGGCTCTGCG	TTGATTGAAT	480
TCTAGACCTG CO	CTCGAG					497

(2) INFORMATION FOR SEQ ID NO:255:

- PCT/US98/06956 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 470 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:255: GAATTCGGCC TTCATGGCCT AGAGAACCGT TGCTTTTCCG AGTTGCTCTT CTTCCAGGCT CCGTTGGTGG TCGGCATGGC CCGTGGAAAT CAACGAGAAC TTGCCCGCCA GAAAAACATG 120 AAGAAAACCC AGGAAATTAG CAAGGGAAAG AGGAAAGAGG ATAGCTTGAC TGCCTCTCAG 180 AGAAAGCAGA GGGACTCTGA GATCATGCAA GAAAAGCAGA AGGCAGCTAA TGAGAAGAAG TCTATGCAGA CAAGAGAAAA GTGATGACTG GCTATTTGGA AAACCTGGGT GCTACTGCCA 300 ACTGGGTGTA TCATAAGCTC TAAGATCAAG ATTTTGTAGA GTGGACAGTC ATTACATATG 360 TTATAACTTA TCCTTTAAAA ACTATTTTAA ACTTTATCCT TTCAGCTTTA CTTAGTGCGA 420 TGTTTTAGAA GCAGTCTTCA AAGAATAAAA CACTAACCAT GCTGCTCGAG (2) INFORMATION FOR SEQ ID NO:256: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 388 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:256; GAATTCGGCC TTCATGGCCT AATTTTGTAT TTTTAGTGGA GACGGGGTTT CTCCATGTTG 60 GTCAAGCTGG TCTTGAACTC CCAACCTCGG GTGATCCGCC CGCCTTGGCC TCCCAAAGTG 120 CTGGGATTAC AGGCGTGAGC CACCGCGCCT GGCCAGTAGT TTCTTAACAT TAAATTATCC 180 GCAAAATGGA AGAAATACTA GAGGTCTGTG AGGATGTTTC TTCTCTTTCA GTCTGTTGTG 240 GTGGTTTGTA GTTTACAGGG GCTTGGGTAA CTGGATTTTT AGGTTTATTA TTTTAAATAG 300 TAGACTCAAC ACTATTTTGT ATTGCAGTAG AGATCACTTA TGCAGATCTT TTTAATACCA 360 TTTCATAGAG ATTAAGGGTC ACCTCGAG 388 (2) INFORMATION FOR SEQ ID NO:257: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 333 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:257:

GAAACAGGGC	TCAAAGAAGT	GGTAACTGCT	GTGGAGGAAA	TGACAAGTAA	AGGAAAACCA	60
GGACAAGAAG	TCTTGGAAGA	CGACCAGGAA	AATACTTTAA	AATATGAGTA	TGAAGAAGAC	120
TTTGAAGTAG	ATGAGGAGAA	ACAAGGTGAA	AAATCTAATG	AAGAAGGACA	GGCTGATGTT	180
CAAATGAATG	GAATACCGCA	GTCACCTTTG	GATGATAAAA	AAGATAATTT	AGACCCTGAA	240
AAAGAGAGTG	AAACCTCATC	ACAGAAGGCA	CCAGATGCCC	GTGACAATGT	GAAAGATGAG	300
AATGATGGAT	GCTCTGAGAG	TGAACGTCTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:258:

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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 544 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:258:

CACAGTGCTG	GNTCACAACA	AGATGNTCNA	GGTGTCAGCC	GTACTGTGTG	TGTGTGCAGC	60
CGCTTGGTGC	AGTCAGTCTC	TCGCAGCTGC	CGCGGCGGTG	GCTGCAGCCG	GGGGGCGGTC	120
GGACGGCGGT	AATTTTCTGG	ATGATAAACA	ATGGCTCACC	ACAATCTCTC	AGTATGAÇAA	180
GGAAGTCGGA	CAGTGGAACA	AATTCCGAGA	CGATGATTAT	TTCCGCACTT	GGAGTCCAGG	240
AAAACCCTTC	GATCAGGCTT	TAGATCCAGC	TAAGGATCCA	TGCTTAAAGA	TGAAATGTAG	300
TCGCCATAAA	GTATGCATTG	CTCAAGATTC	TCAGACTGCA	GTCTGCATTA	GTCACCGGAG	360
GCTTACACAC	AGGATGAAAG	AAGCAGGAGT	AGACCATAGG	CAGTGGAGGG	GTCCCATATT	420
ATCCACCTGC	AAGCAGTGCC	CAGTGGTCTA	TCCCAGCCCT	GTTTGTGGTT	CAGATGGTCA	480
TACCTACTCT	TTTCAGTGCA	AACTAGAATA	TCAGGCATGT	GTCTTAGGAA	AACAGAATCT	540
CGAG						544

- (2) INFORMATION FOR SEQ ID NO:259:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 393 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:259:

GAATTCGGCC	TTCATGGCCT	ACATCAGCAT	CCCTGGGAGC	ATCAGAAATG	CAGAGCTCAG	60
GCCCGCCCCG	GAGCTACCGA	ATCAGAACCT	ACATTTTACA	CACCCCTCAG	CTCAGAGCTT	120
GTTTCTCCCT	GGATTCCATG	GCCCTGTGCT	GCTGGCAGCC	CGGGGTTAGG	GCATTTCGTT	180
GTCACCTGGC	GACGGTGAAG	CCTAGTTTCC	TCCAGAGAGA	TTATGCTGCT	CTCCATCCAA	240
GTGAAGTGGC	AATGGTGCCA	GCCTGAGATT	TCTGCCCTGA	GTTTTAAGTA	CGAGAGTGTG	300
GGCTGACAAT	AAACTCCTTT	ATTCTACCCT	CTTCTGTTCT	CATAAGGAGA	AATTTAAATT	360
CTGGAAGAGA	TGAAGCTTGC	ATTTACCCAA	GAC			393

- (2) INFORMATION FOR SEQ ID NO:260:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 705 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260:

60	AATACCAAAG	AAAAAAAACC	TATTCCTTTA	AAGGGATTGT	AAAGAGGCCT	GAATTCGGCC
120	TTATTCACTT	CAACGTTGTT	CTGTTGATTT	AGCCAAAATT	TGTTGGCCTT	AAGCCTACAA
180	CATTGCAGAA	CAACACAGAA	GACATAAACA	AGAAAATCAA	GCCATGGAAA	CTATCGGGGA
240	CTTAAACTCA	GTGAAGCAAA	TCTTTGGAAA	TAAACCTATT	CAATGGAAAA	GTTTTTAAAA
300	TTTGAATCTA	ATTCCCCTCC	AAGGCGAGTC	CTCAAATCTC	ATATAACCAC	GATAAAGAAA
360	GCATTCTTTG	CATCAGCAGA	TCCAGTAACT	AACAGATTTC	GCCACGGAAT	CCCAACAACA

GGCAGTCTAA	AACCCACATC	TACCATTTCC	ACAAGCCCTC	CCTTGATCCA	TAGCTTTGTT	420
TCTAAAGTGC	CTTGGAATGC	ACCTATAGCA	GATGAAGATC	TTTTGCCCAT	CTCAGCACAT	480
CCCAATGCTA	CACCTGCTCT	GTCTTCAGAA	AACTTCACTT	GGTCTTTGGT	CAATGACACC	540
GTGAAAACTC	GTGATAACAG	TTCCATTACA	GTTAGCATCC	TCTCTTCAGA	ACCAACTTCT	600
CCATCTGTGA	CCCCCTTGAT	AGTGGAACCA	AGTGGATGGC	TTACCACAAA	CAGTGATAGC	660
TTCACTGGGT	TTACCCCTTA	TCAAGAAAAA	ACAACTCTAC	CTACC		705

- (2) INFORMATION FOR SEQ ID NO:261:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 729 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261:

GAATTCGGCC AAAGAGGCCT	ACCTTACTTG	AGTCCACAGG	CAAGGCCCAA	TAATGCATAT	60
ACTGCCATGT CAGATTCCTA	CTTACCCAGT	TACTACAGTC	CCTCCATTGG	CTTCTCCTAT	120
TCTTTGGGTG AAGCTGCTTG	GTCTACGGGG	GGTGACACAG	CCATGCCCTA	CTTAACTTCT	180
TATGGACAGC TGAGCAACGG	AGAGCCCCAC	TTCCTACCAG	ATGCAATGTT	TGGGCAACCA	240
GGAGCCCTAG GTAGCACTCC	ATTTCTTGGT	CAGCATGGTT	TTAATTTCTT	TCCCAGTGGG	300
ATTGACTTCT CAGCATGGGG	AAATAACAGT	TCTCAGGGAC	AGTCTACTCA	GAGCTCTGGA	360
TATAGTAGCA ATTATGCTTA	TGCACCTAGC	TCCTTAGGTG	GAGCCATGAT	TGATGGACAG	420
TCAGCTTTTG CCAATGAGAC	CCTCAATAAG	GCTCCTGGCA	TGAATACTAT	AGACCAAGGG	480
ATGGCAGCAC TGAAGTTGGG	TAGCACAGAA	GTTGCAAGCA	ATGTTCCAAA	AGTTGTAGGT	540
TCTGCTGTTG GTAGCGGGTC	CATTACTAGT	AACATCGTGG	CTTCCAATAG	TTTGCCTCCA	600
GCCACCATTG CTCCTCCAAA	ACCAGCATCT	TGGGCTGATA	TTGCTAGCAA	GCCTGCAAAA	660
CAGCAACCTA AACTGAAGAC	CAAGAATGGC	ATTGCAGGGT	CAAGTCTTCC	GCCACCCCCA	720
ACACTCGAG					729

- (2) INFORMATION FOR SEQ ID NO:262:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 686 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:262:

```
60
GAATTCGGCC AAAGAGGCCT ACTACCATGT CCTCTTGGAG CAGACAGCGA CCAAAAAGCC
CAGGGGGCAT TCAACCCCAT GTTTCTAGAA CTCTGTTCCT GCTGCTGCTG TTGGCAGCCT
                                                                      120
CAGCCTGGGG GGTCACCCTG AGCCCCAAAG ACTGCCAGGT GTTCCGCTCA GACCATGGCA
                                                                      180
GCTCCATCTC CTGTCAACCA CCTGCCGAAA TCCCCGGCTA CCTGCCAGCC GACACCGTGC
                                                                      240
ACCTGGCCGT GGAATTCTTC AACCTGACCC ACCTGCCAGC CAACCTCCTC CAGGGCGCCT
                                                                      300
CTAAGCTCCA AGAATTGCAC CTCTCCAGCA ATGGGCTGGA AAGCCTCTCG CCCGAATTCC
                                                                      360
                                                                       420
TGCGGCCAGT GCCGCAGCTG AGGGTGCTGG ATCTAACCCG AAACGCCCTG ACCGGGCTGC
CCTCGGGCCT CTTCCAGGCC TCAGCCACCC TGGACACCCT GGTATTGAAA GAAAACCAGC
                                                                      480
                                                                      540
TGGAGGTCCT GGAGGTCTCG TGGCTACACG GCCTGAAAGC TCTGGGGCAT CTGGACCTGT
CTGGGAACCG CCTCCGGAAA CTGCCCCCCG GGCTGCTGGC CAACTTCACC CTCCTGCGCA
                                                                       600
                                                                       660
CCCTTGACCT TGGGGAGAAC CAGTTGGAGA CCTTGCCACC TGACCTCCTG AGGGGTCCGC
                                                                       686
TGCAATTAGA ACGGCACATT CTCGAG
```

(2) INFORMATION FOR SEQ ID NO:263:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 571 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:263:

GAATTCGGCC	AAAGAGGCCT	AGGAGAGAGG	AGGTGCTGCA	AGACTCTCTG	GTAGAAAAAT	60
GAAGAGGGTC	CTGGTACTAC	TGCTTGCTGT	GGCATTTGGA	CATGCTTTAG	AGAGAGGCCG	120
${\tt GGATTATGAA}$	AAGAATAAAG	TCTGCAAGGA	ATTCTCCCAT	CTGGGAAAGG	AGGACTTCAC	180
ATCTCTGTCA	CTAGTCCTGT	ACAGTAGAAA	ATTTCCCAGT	GGCACGTTTG	AACAGGTCAG	240
CCAACTTGTG	AAGGAAGTTG	TCTCCTTGAC	CGAAGCCTGC	TGTGCGGAAG	GGGCTGACCC	300
TGACTGTTAT	GACACCAGGA	CCTCAGCACT	GTCTGCCAAG	TCCTGTGAAA	GTAATTCTCC	360
ATTCCCCGTT	CACCCAGGCA	CTGCTGAGTG	CTGCACCAAA	GAGGGCCTGG	AACGAAAGCT	420
CTGCATGGCT	GCTCTGAAAC	ACCAGCCACA	GGAATTCCCT	ACCTACGTGG	AACCCACAAA	480
TGATGAAATC	TGTGAGGCGT	TCAGGAAAGA	TCCAAAGGAA	TATGCTAATC	AATTTATGTG	540
GGAATATTCC	ACTAATTACG	GACAGCTCGA	G			571

- (2) INFORMATION FOR SEQ ID NO:264:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 313 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:264:

GAATTCGGCC A	AAGAGGCCT ACCA	AGCAAG AACAGC	TAAA ATGAAAGO	CA TCATTCATCT	60
TACTCTTCTT G	CTCTCCTTT CTG1	AAACAC AGTCAC	CAAC CAAGGCAA	CT CAGCTGATGC	120
TGTAACAACC A	CAGAAACTG CGAC	TAGTGG TCCTAC	AGTA GCTGCAGO	TG ATACCACTGA	180
AACTAATTTC C	CTGAAACTG CTAG	CACCAC AGCAAA	TACA CCTTCTT	CC CAACAGCTAC	240
TTCACCTGCT C	CCCCCATAA TTAG	TACACA TAGTTO	CTCC ACAATTC	TA CACCTGCTCC	300
CCCCATACTC G	AG				313

- (2) INFORMATION FOR SEQ ID NO:265:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 343 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear

 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:265:

GAATTCGGCC	TTCATGCCTA	GCCTCTGAGT	TCAGCTCAGA	ACACAGATGA	TCTCATTGAT	60
TCCTCACGTC	AACCTTGGGA	AATCTGGGTA	CCCTGGGACG	TCCACACATG	AGGACCGAGG	120
CTCAGGGACA	TCAAGGGACT	GGCCTGGTCC	CAGAAACAGG	GAGTAAAATG	GGAAGTAAAC	180
TCAGTCCCAC	GTCTGCCTGA	CTCCAGAGTT	TGGGCCACTG	AACCATGCGG	CTGCCATCTT	240
GGAGTTCTTT	GAGCTGTGAA	GTGCTGTGCA	TCGTGTGATT	CTGTGTCCCT	TTTGTGCAGG	300
TACCAGGATT	TCTATGCATT	CGACCTGTCA	GGAGCCACTC	GAG		343

- (2) INFORMATION FOR SEQ ID NO: 266;
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 340 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:266:

GAATTCGGCC	TTCATGGCCT	ACAGGAAGCA	CAGAAAGACA	AAATTGGAAA	TGTCTAGTTC	60
CATGTTGATG	CCTTCAGAAG	ATGCAGGTGA	ACAAAGAGAG	GCCGGGAAAT	CAGAGCTAGT	120
TGAAACCCAA	CATGTTACCT	TAGAGCCAGA	GCTACCACTG	AGTTCTCTAA	GCACAGTCAA	180
ATCCCAGGAT	TATGCTGAAA	CAGAGCAGGA	GGTCATTTTA	CAAGCTATAG	AGGCCATGGA	240
GGCCACAGAA	GCCCTGGAGG	CCACAGACGC	CATGGAAGCC	ATAGATCAAG	GTAGCATGAA	300
AGATTATGGA	GATGTGATCT	CTAAGCTGGA	AAGACTCGAG			340

- (2) INFORMATION FOR SEQ ID NO:267:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 367 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:267:

GAATTCGGCC	TTCATGGCCT	AGGCACCCCT	AGGCGACTCA	GGGTTCGGGG	AGGAGGAGAC	60
CAGACGGGGC	CTTGGCTGGC	ATGGCCTCTT	CACAGGGCTG	CCGTGAAGAA	ACTTCGTGAC	120
AGCGGCGGAG	AGGTGGCCCA	GGAGTGAGAC	AAGCAGGCCC	CGGGCCTTGG	ACTCAGACAT	180
GCTGGGTCCG	GTCAGGCCCG	TGTGGGAACC	AGTGTTTTAG	GGACTGGGTA	CTCTCTTAGA	240
GAAGAACTGA	TGCTAAAGAG	TCAGGAAGAC	ACGAGCGGGC	CAAATAAAAG	AGGAAGAGAG	300
GCCCTCAGGA	CATCATGGCA	CTTACTGCTT	GGATTTGTCT	CCCCGTCCAG	AATTCTGTGG	360
ACTCGAG						367

- (2) INFORMATION FOR SEQ ID NO:268:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 320 base pairs(B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:268:

GAATTCGGCC	TTCATGGCCT	ACTTGGGAAT	TAACATCTTC	GATAAATCCC	AGAAGTCTTT	60
AAGTGACAGT	AGAGAGCCTA	CAGAGAAGCC	TGGGAAAGCA	GAAAAATCTA	AGAGCCCAGA	120
AAAAGTGTCA	TCGTTCTCAA	ACTCCTCCTC	CAACAAGGAA	TCAAAAGTAA	ACAATGAGAA	180
GTTTCGTACT	AAGAGCCCCA	AGCCTGCCGA	AAGCCCCCAG	TCAGCCACTA	AGCAGTTGGA	240
TCAGCCCACT	GCTGCTTATG	AGTATTATGA	TGCTGGCAAT	CACTGGTGCA	AAGACTGCAA	300
CACCATCTGT	GGGACTCGAG					320

(2) INFORMATION FOR SEQ ID NO:269:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 542 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:269:

GAATTCGGCC	AAAGAGGCCT	AGGGATATTT	ACTGAGGGCC	TACAGGGTGC	CCAATACTGA	60
GCTAGCTAGG	CTCAGGGACC	TGTACACACA	TGCATTCTCC	ATTAGGGTTC	TGCAATCCTG	120
ACACTATTAC	TATCCTCAAG	GACTCTGCGC	ATCCAGACCC	GTCTATTAGT	TAGCAATGAG	180
AACCCCTGCC	ATGGCCAAGT	TACACAAGAA	CACCCTTGCC	CTACCTCTGC	CCCCTGCNGA	240
TCTGAAAGTA	ACCTGGTCTG	AAAGAGAAGT	AAAGATGTGG	CTGTCCCTGG	GTGCTAGGGA	300
GAGAGGCCTG	TTGACAAAGC	CACCAGCTGT	CTCCAGTCAG	AGCCAGGGAG	ACAGGCTTCT	360
CCCTGCACCA	TCCGCACTGC	CATAGACACA	GCAGCCAGCA	ACAGCACTTG	GACCATTACG	420
GAGTTCCAGG	CCCAGTCTCC	AACTGACCTC	CCTCCTGCTC	CAGCTGCCCA	TGCTAACAAG	480
AGCCAGGGCA	CAAGACCTCA	CTTGGAACAA	GTACCAGGCA	GAAGAGAGCA	TNACCNGCCG	540
GT						542

- (2) INFORMATION FOR SEQ ID NO:270:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 613 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:270:

GAATTCGGCC	AAAGAGCCTA	GTCGATTGAA	TTCTAGACCT	GCCTCCTTTT	CCACTTGAAT	60
TGTTAAATTG	TTTACTCCAG	CATCTTTAAG	TATTCCTGTA	ACCTGCTGTA	CTATTCTTTG	120
TTCTAGCACA	TCAGATGTCA	CCTGTATATG	AATTGTTCCT	GCCACAATAC	TAGCAGAATG	180
ACGCCAAAAA	TGTGGGTCTC	GGTATGATAT	TAATCCTTCA	ATTTTCTGTA	TCTTTTCTAA	240
AGCAATATGT	AGTTCTTTTT	CATATTCTGG	TGGCAATCTC	AGGAGTAGAA	CCTGGCAGGC	300
ATCTTTAATC	AGTGGAACAA	CACTGAGAAA	TATTAATATA	GCAATAAAAA	GAGAACAGAG	360
TGGGTCAGCG	ATGAACCATC	CAAACTGCTC	TATAAGAACT	GTGGATACGA	TCACACCAAT	420
GCTGCCAAGA	GTATCTGCCA	AAACATGTAG	AAATACACCC	CTCATGTTAG	CATTCATGCC	480
TCCACCCGCA	GATCCGTGGC	TGTGACCATG	CCCATGGTCA	CTGTGTCCAT	GCATATGATG	540
TGAATGGCTG	TGATCAGATG	AGTGACAGCT	TCCTTGAGCC	TAAACCGTCG	ATTGAATTCT	600
AGACTGCCTC	GAG					613

- (2) INFORMATION FOR SEQ ID NO:271:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 763 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:271:

GAATTCGGCC AAAGAGGCCT AGTCTGGTTC TTGCTTGATC TGAGAGCTTC CATCAGTCTC 60 120 TTTTATTTCT TCTGTGGCTG GAACTTCCAA CTGGCTTGGT TCAGCTGATT CTTGTATCAC

GGGGCCTTCT	GACTCACTCT	GATCAACCAG	CTGGTTATTA	ATCACAAGTC	CTGGAAATGG	180
TCTAATGACC	GTGAATTTGA	TAAACTCGGC	AGAGTCTAAG	ATCCTTCTCA	TGGAGCTGAT	240
TTCCAGGTAG	CTGGGGGCTT	TGAAAGGACA	CCCCCGGGGG	CATGCCATCA	ACTACCACAC	300
AGCCAGGGTT	AATTGTGATT	TCCCTGTAGG	GAACTTTCAC	AGGAAAACCC	ATACCAATAG	360
CTTCACCAAA	TTTCCGACTA	AAGAGGTCAT	TCACTTGTTC	TCTTAGCTGT	CTAGCTTTTT	420
CAACTTTCGA	GAGTCTTTCA	TTATCATCAT	CTGGAATTGT	CACCTGAATG	ATGTTAAGGT	480
CTTCAACACC	TGATGCAGTA	GTATTAACAT	TGGGTGATGA	ATTTATTTT	CTGGGAGGGC	540
TCTTAGAGGA	GGTGCTCTCC	TTAATCGCCG	TCTCAAACAT	TTCGGGCTTT	TTAATGATGA	600
ACTTAATTTT	GGCTTTGTTT	CTGAGTATCT	TCTCCAGCCT	CGGAATGCCA	AAAGTCGATG	660
GTCTTCGGAA	TGGCACACCC	TCAGGTAAGC	CTTCCACATA	AAAGTCTTCC	GGGAAAGACT	720
CAAATAACGC	GAACGGCACC	TTCACAGCTT	GTTTAAGGCC	AAG		763

- (2) INFORMATION FOR SEQ ID NO:272:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 102 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:272:

GAATTCGGCC AAAGAGGCCT AATTAAGGAA ATACTTTGCA TAAATTAATC AGCCCCACAG 60
TATTTCCTTA ATAAGAATAA AATGAATTTA ACACTGATTC TG 102

- (2) INFORMATION FOR SEQ ID NO:273:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 565 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:273:

GAATTCGGCC	AAANAGGCCT	ACNCCAGTCA	AGGAAAGTCA	AGTNGCAAGA	AGGAANTGTC	60
TAAAAGAGAT	GGCAAGGAGA	AAAAAGACAG	AGGAGTGACG	${\tt AGGTTTCAGG}$	AAAATGCCAG	120
TGAAGGGAAG	GCCCCTGCAG	AANACGTCTT	TAAGAAGCCC	CTGCCTCCTA	CTGTGAAGAA	180
GGAAGAGAGT	CCCCCTCCAC	CTAAAGTGGT	AAACCCACTG	ATCGGCCTCT	TGGGTGAATA	240
TGGAGGAGAC	AGTGACTATG	AGGAGGAAGA	AGAGGAGGAA	CAGACCCCTC	CCCCACAGCC	300
CCGCACAGCA	CAGCCCCAGA	AGCGAGAGGA	GCAAACCAAG	AAGGAGAATG	AAGAAGACAA	360
ACTCACTGAC	TGGAATAAAC	TGGCTTGTCT	GCTTTGCAGA	AGGCAGTTTC	CCAATAAAGA	420
AGTTCTGATC	AAACACCAGC	AGCTGTCAGA	CCTGCACAAG	CAAAACCTGG	AAATCCACCG	480
GAAGATAAAA	CAGTCTGAGC	AGGAGCTAGC	CTATCTGGAA	AGGAGAGAAC	GAGAGGGAAA	540
GTTTAAAGGA	ATAGGAAATC	TCGAG				565

- (2) INFORMATION FOR SEQ ID NO:274:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 188 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:274:

GAATTCGGCC AAAGAGGCCT	ACTTAAATCA	AGGCCAAAAC	TAAGGATTTA	GGTAGAGTGT	60
ATTAGCCTTT CAATACCTGC	TTATTAAACA	GTTGTTTTCA	TACTTTTCAA	AGGTGTGTAG	120
AAGTTTTGTA AATAAATTTT	CTGATAGGAT	AAACTAGATT	CCCTATGATC	TCTTATTTAT	180
TTATCATT					188

- (2) INFORMATION FOR SEQ ID NO: 275:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 555 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:275:

GAATTCGGCC AAAGAGGCC	r agtccgtgat	GCGTACACAC	CTGTCGAGCA	CGAGCTCCTC	60
TAGGCGGTGC AGGTCGCAG	G CCACGTACTC	CAGCGCCATG	TCGGTGATNC	GTGGGCACCA	120
CGAGAGGTCA AGGNTGCGC	A GCTTGCGCAG	GTTCTCGGCC	ACGAGCTCCA	CGCCGTCGTC	180
GGTGACCTTG GAGCAGCCC	G AGAGGCTGAA	CGCGGTGAGG	TTGGGCAGGN	TGTGCACCAC	240
GTTGACCACG CCGTGGTTG	F TGATCTCCCA	GCAGGAGAGC	AGGCGCAGCG	TGTGCGTGCT	300
GTGGCCCTGG CGCGCCGTG	A AGTAGGCCAG	CGCCGTGTCC	GTCACGTGGT	AGGCCTGCAG	360
GCTCAGCTCC GCCAGGTTG	G GCAGCAGCTG	CGAGATGGCC	GCGATGGCGT	CGTCGGCCAC	420
GTTGATGCAG TCACTCACG	C TCAGCGAGGT	GATGCGCGCG	CTCAGGCTGG	ACCACAGCCC	480
GGCCTCGGTG AAGTCGTTG	C AGCCCGACAG	CTCCAGACGC	ACCACGCCCT	GCATCTGTTC	540
AAGCATAACC TCGAG					555

- (2) INFORMATION FOR SEQ ID NO:276:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 496 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:276:

GAATTCGGCC	AAAGAGGCCT	ACAGTGAATA	ATCAGAAGTC	AGTTTGGGAG	AAGTCAAAAT	60
GGACACAATC	TTCTTGTGGA	GTCTTCTATT	GCTGTTTTTT	GGAAGTCAAG	CCTCAAGATG	120
CTCAGCTCAA	AAAAATACCG	AATTTGCAGT	GGATCTTTAT	CAAGAGGTTT	CCTTATCTCA	180
TAAGGACAAC	ATTATATTT	CACCCCTTGG	AATAACTTTG	GTTCTTGAGA	TGGTACAACT	240
GGGAGCCAAA	GGAAAAGCAC	AGCAGCAGAT	AAGACAAACT	TTAAAACAAC	AGGAAACCTC	300
AGCTGGGGAA	GAATTTTTTG	TACTGAAGTC	ATTTTTCTCT	GCCATCTCAG	AGAAAAAACA	360
AGAATTTACA	TTTAATCTTG	CCAATGCCCT	CTACCTTCAA	GAAGGATTCA	CTGTGAAAGA	420
ACAGTATCTC	CATGGCAACA	AGGAATTTTT	TCAGAGTGCT	ATAAAACTGG	TGGATTTTCA	480
AGATACAAGG	CTCGAG					496

- (2) INFORMATION FOR SEQ ID NO:277:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 491 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:277:

GAATTCGGCC	AAAGAGGCCT	ACACCCAGAG	ACTGTAATTT	GTGTAGTTTT	TCTTTTTAA	60
CTTAAAGACA	ACTTTAAAAA	ATACTTACAT	TAATGTTTTT	TATATTCATA	GGTGGGTATA	120
TTCGCCTCAT	TCAAATGGCA	GTAGCCTTGG	CTCACATAAG	ACATGTTTCA	TGTGATCTGT	180
ATCCTGGCAT	ACCAGTTATA	TTTTGTGGGG	ACTTTAATAG	TACACCATCA	ACAGGAATGT	240
ATCATTTTGT	CATCAATGGC	AGCATTCCAG	AGGATCATGA	AGACTGGGCT	TCCAATGGGG	300
AGGAGGAAAG	ATGCAATATG	TCTCTTACAC	ATTTCTTCAA	GCTGAAAAGT	GCTTGTGGTG	360
AACCTGCTTA	CACAAATTAT	GTTGGTGGCT	TTCATGGATG	TCTAGATTAC	ATTTTCATTG	420
ACTTAAATGC	TTTAGAGGTT	GAACAGGTGA	TTCCATTACC	TAGTCATGAA	GAAGTTACCA	480
CTCCACTCGA	G					491

- (2) INFORMATION FOR SEQ ID NO:278:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 369 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:278:

GAATTCGGCC	AAAGAGGCCT	ACAGAGAACA	GATAAAAATA	AGCCTGTGGA	ATGACCACTT	60
TGTGGAATAC	GGCAGAACCG	TGTGTATGTT	TCGCACAGAG	AAGATTCGGA	AGCTCGTAGC	120
CATGGGCATC	CCTGAATCTT	TGCGAGGGAG	ACTCTGGCTT	CTCTTCTCAG	ATGCGGTGAC	180
GGATCTTGCC	TCACACCCTG	GTTACTACGG	GAATCTGGTG	GAGGAGTCCC	TGGGGAAATG	240
CTGCCTGGTA	ACCGAGGAGA	TAGAACGAGA	CCTGCACCGC	TCCCTGCCAG	AGCACCCCGC	300
CTTCCAGAAC	GAAACGGGAA	TTGCTGCTTT	GAGGAGAGTC	TTGACGGCCT	ATGCCCACCG	360
GAGCTCGAG						369

- (2) INFORMATION FOR SEQ ID NO:279:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 528 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:279:

GAATTCGGCC	AAAGAGGCCT	ACTCTCCCTT	TCCACTCCCT	GGTGTTCCCA	GGAGTGAGAT	60
GAGGGTGGAG	GGGCCCAGCA	CAGCACCTTC	AACCTCAGGA	TGAGAGAGGC	CCTTTCACAA	120
AACTCTAAGG	CAGGGGAACA	GGAAACAGAG	AAAGCCGGAG	AACCCCAGGA	GGGCCCCAAG	180
AGCGGATTCT	GGTGATTATT	AATGTGCTTG	CCCAATGAAG	AAAGAATACT	GGCACTCTCT	240
AGGTATGATG	AGAGCAGACA	GCAAACGTGG	GGCCTGTCTA	CAGTGATTCG	CTACCCCAAT	300
GTATGGTCAT	CCACGTTAGA	AGCAGCAGTG	AAAGGCGTGT	TGCTTTTCAT	TATTAACTTC	360
AAATCCCAGT	CCCTAAACCA	GCTCTTGACG	CCCCTCTGTC	AGGTGCTAAT	CCTGGAAACT	420
GGAGGCCACC	TGGTCTCCAC	TTTAGGTGAG	GAAAACCTGG	GAGAAGCCAT	CAGACTGCAC	480
CTGTGGCATG	AGATGCTTTG	AGACAGGTCA	AGAGGAGGAG	CTCTCGAG		528

- (2) INFORMATION FOR SEQ ID NO:280:
 - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:280:	
GAATTCGGCC AAAGAGGCCT ACAGTGTCGG AGTAGATTTG AAACTGGAGG TGAAGGTAGG AGTAAGTGAT AGATTTTAGA ATTAGTGCTC AGAGCTGAAA TATCCAGTCC GTGAACTTAG AGGCCAGCCT TCATACCACT GTGATGACAG GAACTACCCT AATCTTTTCT GTCCTTTTCT CTCTGCTGTCC CCCCGGGCTG CCAGGCCAGC AGCAACACCC ACAGGTAATC TCCCCGCTGA CTCCATCCAC TTGCTCTGCC CTCTGCCCTC TCTGTGCCCC GTTGCACCC CCAGCCAGTGG CATCCAACTC GAG	6 12 18 24 30 32
(2) INFORMATION FOR SEQ ID NO:281:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:281:	
GAATTCGGCC AAAGAGGCCT ACTCAGTCAG TACCATGCCA GTTACCTTTT TTCCTTGTGA CTTAATGAAT TGGATTTTCC TCAATCTGTT ATTTGTAGGA GGTTTGTATG GGGCCAGGGT AGATTTCCAG ATTTCTGCCT CAGAGGTAGT CTTTTTCACA TATGACACCT GGGTGTGTTT CTCTGTGTGG CCACAAGTCT TCTGCCTCTC TAAAAAAATG TCTAGACCTT CTAGAAGGTC TTTTGCCGCT AATTCTGAAC TTTCCACTCC TTCCTTTGCA GCTGTGATTG GAGGGACATG GCTCCAGCAT GCCACATGTAA ACCACCGCCC CCTCGAG	12) 18) 24) 30) 33)
(2) INFORMATION FOR SEQ ID NO:282:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 194 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:282:	
GAATTCGGCC AAAGAGGCCT AGGCTCTTCC ACTTAATTTC ATACTTTCAG GTCTGGATGC CCATTTTAAT TCTTCTGAAA GCATGCCTCC TTCTGGCTTC AGGACTCCAT CTCCAGCCTT ATGATCTAAA AATAATGGAA AATTACCCGG TATCGTTAGA GCTACACCAA AATTGCATTG AGCCAAAACT CGAG	6 12 18 19
(2) INFORMATION FOR SEQ ID NO:283:	

185

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 296 base pairs

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:283:

GAATTCGGCC	ÄAAGAGGCCT	AAAATCATCA	TATTCATAGA	GATATTAAAA	GTGCAAATAT	60
CTTACTGGAT	GAAGCTTTTA	CTGCTAAAAT	ATCTGACTTT	GGCCTTGCAC	GGGCTTCTGA	120
GAAGTTTTGC	CCAGACAGTC	ATGACTAGCA	GAATTGTGGG	AACAACAGCT	TATATGGCAC	180
CAGAAGCTTT	GCGTGGAGAA	ATAACACCCA	AATCTGATAT	TTACAGCTTT	GGTGTGGTTT	240
TACTAGAAAT	AATAACTGGA	CTTCCAGCTG	TGGATGAACA	CCGTGAACCA	CTCGAG	296

- (2) INFORMATION FOR SEQ ID NO:284:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 456 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:284:

GAATTCGGCC	AAAGAGGCCT	AGCAACATCC	ACGCAGCTGC	TCATCAGGTA	CGAGTGCTTC	60
CATATCCATT	TACCCACCAT	TGGCAATTTG	AAAGGACCAT	CCAGACCCCC	ATAGGATCCA	120
CATGGAACAC	CCAGAGGGCT	TTCCAAAAGC	TGACTACTCC	CAAGGTCGTC	ACCAAGCCAG	180
GCCATATCAT	TAACCCCATA	AAAGCAGAAG	ACGTGGGCTA	CCGGTCTTCC	TCAAGGTCGG	240
ACCTGTCTGT	CATACAGAGG	AATCCAAAAC	GAATCACCAC	ACGTCACAAA	AAACAGCTGA	300
AGAAATGCTC	TGTAGATTGA	GTTGCTGGAG	GAGTGACAGC	CAGGAGCCCT	GACTTCACTT	360
CCTTTGGTCC	AGTTTTACTC	TGATACAGGG	TGGATTCCAA	AACTGGCTCA	GTACATTGCA	420
TGTAGTTAAG	CCACATTTTA	AAAATAAAGG	CTCGAG			456

- (2) INFORMATION FOR SEQ ID NO:285:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 150 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:285:

GAATTCGGCC	AAAGAGGCCT	AAGGTCGGCC	TGTTCATCTT	GATTAGCATC	CAGGCCTTGG	60
AATATTTCAT	CAATGACAGC	TTTATCTTTG	ATATTCTTGA	TGGTGTTTGC	AAGCTCCTTT	120
GTAAGCAGCT	GCTTCAGCTC	ACCCCTCGAG				150

- (2) INFORMATION FOR SEQ ID NO:286:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 115 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:286:

AATCCAAGCA ATAACCCAAG CAAAACTTCA GATGCACCTT ATGATTCTGC AGATGACTGG 60 TCTGAGCATA TTAGCTCTTC TGGGAAAAAG TACTACTACA ATTGTCGAAC TCGAG 115 (2) INFORMATION FOR SEQ ID NO:287: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 278 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:287: GGAAGAAGAT GCTAGGAGAA GACTCAGATG AAGAAGAGGA AATGGATACC TCTGAAAGGA 60 AGATAAATGC TGGTAGCCAA GATGATGAGA TGGGTTGCAC CTGGGGAATG GGAGAAGATG 120 CAGTAGAGGA TGATGCTGAA GAGAACCCTA TTGTCTTAGA GTTTCAGCAG GAAAGGGAGG 180 CCTTTTATAT AAAGGATCCC AAAAAGGCTC TCCAAGGCTT TTTTGACCGA GAAGGAGAAG 240 AATTAGAATA TGAATTTGAT GAACAGGGAC AACTCGAG 278 (2) INFORMATION FOR SEQ ID NO:288: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 364 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:288: GGATTTCTGA GGCCAACTGC CCAATAGTTT CCAGTAGAAA CATGGCCATA CCAGTCTAGA 60 ATTTAACCTT CTCATTTAAT CAATAGCACA ATCTAACCTA CACAAGAATA AGCAATCAAA 120 CATCCAGTAT AACATGTTTT TCATTTTTAC TTTCTTGCGG TCAATTTTTT TAATGATCTA 180 TTTAAAATTT TTTCAAAATG ACAACTACTA TGGAATACTG AATACAAAGT TCAGTAACAC 240 AACATTGATA ACAACAACAG CAGCAACAAT ACCACAACCA CCACCAGTGA ATGGTCTGGG 300 CACCTTCACA ATGGCTGTTG TACTTAGTTA CGAAGAGAG TGGGGACAGA AAATGAAGCT 360 364 (2) INFORMATION FOR SEQ ID NO:289: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 471 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:289: GACTCCATGC GTATGTCCCA CCTAAAGGTC GGCTCTGCTG CCGACATCCC CATCAACATC 60 TCAGAGACGG ATCTCAGCCT GCTGACGGCC ACTGTGGTCC CGCCCTCGGG CCGGGAGGAG 120 CCCTGTTTGC TGAAGCGGCT GCGTAATGGC CACGTGGGGA TTTCATTCGT GCCCAAGGAG 180 ACGGGGGAGC ACCTGGTGCA TGTGAAGAAA AATGGCCAGC ACGTGGCCAG CAGCCCCATC 240 CCGGTGGTGA TCAGCCAGTC GGAAATTGGG GATGCCAGTC GTGTTCGGGT CTCTGGTCAG

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GGCCTTCACG AAGGCCACAC CTTTGAGCCT GCAGAGTTTA TCATTGATAC CCGCGATGCA

300

360

GGCTATGGTG GGCTCAGCCT GTCCATTGAG GGCCCCAGCA AGGTGGACAT CAACACAGAG GACCTGGAGG ACGGGACGTG CAGGGTCACC TACTGCCCCA CAGAGCTCGA G	420 471
(2) INFORMATION FOR SEQ ID NO:290:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 281 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:290:	
GAATTCGGCC TTCATGGCCT AGATTGAGTC ACATTGTTCT CTTTGATCCA TTTTCTTTTA GACAACATCA CTCAAACAAC CCTATTACTT CAGTAGCAAT GAACTGTCTC TGGATTTTAT TAAGCATCTC ACTGTTCCT TTTCTTCAGC TGTATGGCAC CCTGTCTTCC TGTACACCAG AGGCTCCTCA GCTGGGTAAG GTGAGCCAAC GTTACCAGGA GTATATGCTG AGAGGCCATT TCAAAGTCTT TCATAGAAGG CTGTGCTTGG GCAAACTCGA G	60 120 180 240 281
(2) INFORMATION FOR SEQ ID NO:291:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic.acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:291:	
GARACTCTGC CCCTGAAGGT TTGTTTTCTA ATTCAGAGGT TTAAATTAAT CTAGCCCACT TAATAAAACC AGAGATCCTA TGGGAAATTT AGCCTAAGAC AGTGCTGGAA ATTGCCATAT GTTGATACAA AGAAGTGTTT GGCCACATTA CAGGTCTCAG ACTCAACTGC TATGTGTGAC TGCCGCTCTG TGCCTATGTC TTGCTTTTTT GCTGAGTTCC CTATTTCCAT ATCTCCAGGT GATCCTCGAG	120 180 240 250
(2) INFORMATION FOR SEQ ID NO:292:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:292:	
GAAATGTCAG AGGCACATAA GCTTTTACAA AAATTGTTGG TTCATTGTCA GAAACTGAAG AACACAGAAA TGGTGATCAG TGTCCTACTG TCCGTGGCAG AGCTGTACTG GCGATCTTCC TCCCCTACCA TCGCGCTGCC CATGCTCCTG CAGGCTCTGG CCCTCTCCAA GGAGTACCGG TTACAGTACT TGGCCTCTGA AACAGTGCTG AACTTGGCTT TTGCGCAGCT CATTCTTGGA ATCCCAGAAC AGGCCCAACT CGAG	60 120 180 240 260
(2) INFORMATION FOR SEQ ID NO:293:	

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 416 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:293:

GAATTCGGCC	CTTCATGGCC	TAGGTTTCTC	CGTGTTGGTC	AGGCTGGTCT	CGAACTCCTG	60
ACCTCAGGTG	ATCCACCTGC	CTCAGCCTCC	CAAAGTGCTG	GGATTACAGG	CATGAGCCAC	120
CATGTCCTGC	TATAAATAAC	TTTTAATAGG	CTCTTTTTCT	GGCTTTTTTT	TTTAGTAACT	180
CAGCCCATTT	TCTTCTTCTC	AATCTGGTCT	TTGTTAATGT	TGATAACGCT	GTCTTACTTT	240
TAAATTGCCG	TGATTAGAAA	TTACTAGAGA	TATATAAACC	TAGTCTTTTG	GGGGATTTTG	300
AAAGGGTCAT	AGTATTCTTA	CTGTCTTTCA	AAATGTACCT	TATATTTGAA	CATTGGAAGA	360
TACGTGTTGC	TGAATACAAG	TTAGTTTCAT	ACACACACAT	ACACATGACA	CTCGAG	416

- (2) INFORMATION FOR SEQ ID NO:294:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 458 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:294:

GAATTCGGCC	TTCATGGCCT	ACTCCATTCC	CAGATAGAAA	GCTTGAATGA	AGAGTTGGTC	60
CAGCTGCTTC	TCATCCGAGA	TGAGCTGCAC	ACAGAGCAGG	ATGCCATGCT	GGTGGACATT	120
GAAGACTTGA	CCAGACATGC	TGAAAGTCAG	CAGAAGCACA	TGGCAGAGAA	AATGCCTGCA	180
AAGTGAAAAG	AAGCCATTCA	ACCAGAGAAC	AAGCTAGAAT	TTATTTTGCT	TCTGTGGTTG	240
TAAAAATGCT	GTTGCTAAAG	GTGGCGCAGA	AACAAATATC	AGTGTTAGTC	ATTGATAATG	300
TCTGAAGCTT	AATGTCCAGT	GATTGGCCTT	TGCTTCTTAA	TTTATTTAA	TTTTTTACTT	360
GTGCCACTTA	ATATCAGGCA	AAATAATTTT	ATATTGTTAC	AAAAAATÇTA	CAGTACTGAC	420
ACCACCACAA	ATCATGGTTA	ATAAAAGAGA	GTCTCGAG			458

- (2) INFORMATION FOR SEQ ID NO:295:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 302 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:295:

GTGTAAAACC	AATGCCAGGA	AAACCAAATA	CACAAAACCC	TCCACGGAGA	GGTCCTCTGA	60
GCCAGAATGG	GTCTTTTGGC	CCATCCCCTG	TGAGTGGTGG	AGAATGCTCC	CCTCCATTGA	120
CAGTGGAGCC	ACCCGTGAGA	CCTCTCTCTG	CTACTCTCAA	TCGAAGAGAT	ATGCCTAGAA	180
GTGAATTTGG	ATCAGTGGAC	GGGCCTCTAC	CTCATCCTCG	ATGGTCAGCT	GAGGCATCTG	240
GGAAACCCTC	TCCTTCTGAT	CCAGGATCTG	GTACAGCTAC	CATGATGAAC	AGCAGTCTCG	300
AG						302

(2) INFORMATION FOR SEQ ID NO:296:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 412 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:296:

CATGGATCTG	CCTCCTGAGA	GGGATGGAGA	GAAGGGGAGG	AGCACAAAGC	CTGGCTTTGC	60
CATGCCAAAA	CTTGCACTTC	CCAAAATGAA	GGCTTCTAAG	AGTGGGGTCA	GCCTGCCACA	120
GAGAGACGTG	GATCCTTCCC	TTTCTAGTGC	CACAGCAGGG	GGTAGCTTTC	AAGACACAGA	180
AAAGGCCAGC	AGTGACGGTG	GTAGGGGAGG	ACTTGGTGCA	ACAGCAAGTG	CCACAGGAAG	240
TGAGGGTGTG	AACCTCCACC	GGCCACAGGT	CCACATTCCC	AGTTTGGGCT	TTGCCAAACC	300
TGATCTCAGA	TCCTCCAAGG	CCAAGGTGGA	GGTGAGCCAG	CCTGAAGCTG	ACCTGCCTCT	360
TCCCAAACAT	GATCTGTCTA	CCGAAGGTGA	CAGCAGAGGA	TGTGGGCTCG	AG	412

- (2) INFORMATION FOR SEQ ID NO:297:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 308 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:297:

GTGCTGGTGG	CGCGGGGAGT	GCGCGTCAAG	GTGAACGAGG	CCTACCGGTT	CCGCGTGGCA	60
CTGCCTGCGT	ACCCAGCGTC	GCTCACCGAC	GTCTCCCTGG	CGCTGAGCGA	GCTGCGCCCC	120
AACGACTCAG	GTATCTATCG	CTGTGAGGTC	CAGCACGGCA	TCGATGACAG	CAGCGACGCT	180
GTGGAGGTCA	AGGTCAAAGG	GGTCGTCTTT	CTCTACCGAG	AGGGCTCTGC	CCGCTATGCT	240
TTCTCCTTTT	CTGGGGCCCA	GGAGGCCTGT	GCCCGCATTG	GAGCCCACAT	CGCCACCCCA	300
ATCTCGAG						308

- (2) INFORMATION FOR SEQ ID NO:298:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 269 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:298:

GAATAAGTAA	ATTCATGGAA	AGGAAGAAAT	TAAAAGAAAG	TGAGGAAAAG	GAAGTGCTTC	60
TGAAAACAAA	CCTTTCTGGA	CGGCAGAGCC	CAAGTTTCAA	GCTTTCCCTG	TCCAGTGGAA	120
CGAAGACTAA	CCTCACCAGC	CAGTCATCTA	CAACAAATCT	GCCTGGTTCT	CCGGGATCAC	180
CTGGATCCCC	AGGATCTCCA	GGCTCTCCTG	GATCCGTACC	TAAAAATACA	TCTCAGACGG	240
CAGCTATTAC	TACAAAGGGA	GGTCTCGAG				269

- (2) INFORMATION FOR SEQ ID NO:299:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 458 base pairs

(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:299:

GAGCGACCTT	TGGAATAGTT	AAGCACAGGT	CATTGTGGAC	ATGAATTCAG	GCCTCTGTAC	60
TAAAATCTAT	TTCAGGGAAT	GTTCTGTCTA	GTGATTTGCT	CACCATTTGA	TATATAATGA	120
ATTATAGGAC	AAGTATAAGC	TGATCTGCTA	TAGCTGTCCA	TCAGAGAGAA	TACACGTGGC	180
TATAACATCT	ATAACAAAAC	GACGATTCCT	CTACAAGAGG	CTGTTTCTCA	CTGCTAACGT	240
TGGTGTTTCT	GGCGTGGGAA	GAAATGCACA	GGCGTGCATG	GCATGCACGT	TCAGACAGCT	300
GCATTGTAAG	AGTTCTGTCA	TGCAGTCTGA	AAAGGGAAGA	AACAGGATGG	CTTTCTGTAG	360
CCACACCTGT	GAGGCGTGAT	GATTGTTGTA	TTATTAGATT	ACTGATTTTT	CTTTTCTGAA	420
AATACATTTG	AGTTTTAATC	ACATCTGTGG	AACTCGAG			458

- (2) INFORMATION FOR SEQ ID NO:300:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 99 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:300:

GGGATGCCTG TTCTTGGGGT	AGAGAAGTCA	GGTAGCCCAG	GGCCCGCACT	CTCAATAGAC	60
CTTCAGAGAA AAGGCATCGA	GGTAAATGCC	GCACTCGAG			. 99

- (2) INFORMATION FOR SEQ ID NO:301:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 569 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:301:

GGTCTAACAG TAACACTACT	CAAGAGACCC	TGGAAATAAT	GAAAGAATCA	GAAAAAAAAC	60
TGGTGGAAGA ATCTGTAAAC	AAAAACAAGT	TTATATCTAA	GACTCCAAGT	AAGGAAGAAA	120
TTGAGAAAGA ATGTGAAGAT	ACCAGTTTGC	GTCAGGAGAC	ACAGAGGCGG	ACATCTAACC	180
ATGGTCATGC CAGGAAAAGA	GCCAAGTCTA	ATTCCAAGCT	AAAGTTGGTG	CGTAGCCTGG	240
CAGTGTGTGA GGAGTCCTCC	ACCCCATTTG	CTGATGGGCC	ATTAGAAACC	CAGGATATAA	300
TTCAATTGCA CATCAGTTGC	CCTTCTGACA	AGGAGGAAGA	AAAGTCCACA	AAAGATGTCT	360
CTGAAAAGGA AGACAAGGAC	AAAAACAAAG	AAAAGATCCC	AAGGAAGATG	CTGTCCAGAG	420
ACTCCAGCCA GGAATATACG	GACTCCACTG	GAATAGACCT	ACATGAATTT	CTTGTAAATA	480
CACTGAAAAA GAACCCAAGG	GACAGAATGA	TGCTGCTAAA	ATTAGAACAG	GAGATTCTGG	540
AATTTATTAA TGACAACAAC	CCACTCGAG				569

- (2) INFORMATION FOR SEQ ID NO:302:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 311 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:302:

GCGATTGAAT	TCTAGACCTG	CCACCCAAAC	CCCAACTCTC	AGACTTACCT	CCCAAACCAC	60
AGATGAAGGA	CCTGCCCCCC	AAACCACAGC	TGGGAGACCT	GCTAGCAAAA	TCCCAGACTG	120
GAGATGTCTC	ACCCAAGGCT	CAGCAACCCT	CTGAGGTCAC	ACTGAAGTCA	CACCCATTGG	180
ATCTATCCCC	AAATGTGCAG	TCCAGAGACG	CCATCCAAAA	GCAAGCATCT	GAAGACTCCA	. 240
ACGACCTCAC	GCCTACTCTG	CCAGAGACGC	CCGTACCACT	GCCCAGAAAA	ATCAATACGG	300
GGGCACTCGA	G					311

- (2) INFORMATION FOR SEQ ID NO:303:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 683 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:303:

ACAGCATGAA	GGCAGAAGCC	AATGCCCTGC	ATCACAAACA	CGACAAGAGG	AAGCGTCCGG	60
GGAAGAATGC	ACCCCCAGGA	GGTGATGAGC	CACTGGCAGA	GACAGAGAGT	GAAAGCGAGG	120
CAGAGCTGGC	TGGCTTCTCC	CCAGTGGTGG	ATGTGAAGAA	AACAGCATTG	GCCTTGGCCA	180
TTACAGACTC	AGAGCTGTCA	GATGAGGAGG	CTTCTATCTT	GGAGAGTGGT	GGCTTCTCCG	240
TATCCCGGGC	CACAACTCCG	CAGCTGACTG	ATGTCTCCGA	GGATTTGGAC	CAGCAGAGCC	300
TGCCAAGTGA	ACCAGAGGAG	ACCTAAGCCG	GGACCTAGGG	GAGGGAGAGG	AGGGAGAGCT	360
GGCCCCTCCC	CGAAGACCTA	CTAGGCCGTC	CTCAAGCTCT	GTCAAGGCAA	GCCCTGGACT	420
CGGAGGAAGA	GGAAGAGGAT	GTGGCAGCTA	AGGAAACCTT	GTTGCGGCTC	TCATCCCCCC	480
TCCACTTTGT	GAACACGCAC	TTCAATGGGG	CAGGGTCCCC	CCCAGATGGA	GTGAAATGCT	540
CCCCTGGAGG	ACCAGTGGAG	ACACTGAGCC	CCGAGACAGT	GAGTGGTGGC	CTCACTGCTC	600
TGCCCGGCAC	CCTGTCACCT	CCACTTTGCC	TTGTTGGAAG	TGACCCAGCC	CCCTCCCCTT	660
CCATTCTCCC	ACCTGATCTC	GAG				683

- (2) INFORMATION FOR SEQ ID NO:304:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 653 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:304:

GAATTCGGCC	AAAGAGGCCT	AGAGATGTCT	ACTCTCAGCT	CACGCCTGTA	ATCCCAGCAT	60
TGTGGGGAGG	TCAAGTTGGG	TGGATTGCTT	GAGCCCAGGA	GTTTGAGACC	AGCCTAAGCA	120
ATAGGCAAAA	CCCTGTCTCT	ACAAAAATCA	GCCAGGTATG	GTAGTGTGTA	CCTGTAGTCC	180
TAGCTACTCA	GGAGGCTGAG	GTGGGAGGAT	CGCTTGAGCC	TGGGAGGTGA	AGGCTGAAAT	240
TAGCCATGAT	CATGCCACTG	CACCCCAAGC	CTGGGCAACA	GAGCAAGACC	TTGTCTCAAA	300
AAAAAAAGGA	TGAGCTAGGT	TTGTATCTGT	AGACAGAGAT	TTATGATTAA	TTGGTAGGTG	360
AAAAAGTGTA	TTAAAGTACA	GTTATAGATT	AGAGTACAAA	ATGAATGAGT	ATATATGCGT	420

TTAAAAGTAT GTATACATAT CAGGAAAGGT TACATGAGGA TTT TCTCCCAGTA TTTGAATTTT TAATAACAAT CTTTTTATCA TAP	
CTTTTAGATT TTTTAGTGGT ATAAGTAGAA CAGGAACCCT AAT	
TGTGATAAAG ATAATTCATG ATAGATGAAG TTGCAAACCG AAA	
(2) INFORMATION FOR SEQ ID NO:305:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 442 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:305	:
GAATTCGGCC TTCATGGCCT AAGGTATTCC AAAATGTCTA ATT	
AATGTAATAA TTAAAGAAAG AGGAAAGAAT CATGAAAGGT GGC GGCAGAGTTA GGTCAGAGGC ACACTTTCTT ACAGACTAAG AGT	
GGCAGAGTTA GGTCAGAGGC ACACTITCTT ACAGACTAAG AGT GATGTTTATC AGAAGCTTGG ACTGCTTCTG TGTCTTTTTA TTG	
GAGTTCTGTG TCTGCTCCTA TACATCTTTC TGCAGCTGCA GAC	
TTTTAGCTTT CCTATCTTAG TGCACCTGAA GGGAAAGGAA TGA	
GTTTTACTGG GGCCCATTGT ATGAGAGTGA AGTTTGGCAG TTA	
TCACCTCCCT CCGGCGCTCG AG	442
(2) INFORMATION FOR SEQ ID NO:306:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 412 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:306	:
* .	
GAATTCGGCC TTCATGGCCT ACCAATATGC AAATCAGTAC CTC	TTCTCTT AGAGGTGTTC 6
ATGCCCAAGC TCCTCAGACA AGTCCATCCC ACTGTGTGGG AGC	
TTTTTAAGAT TTTTATCTTG CTTGAAGTTG TGAAGACTCA ATC	
GAAGGGGTCT TGGAAGTCAT TACTGGGGAT AGACCCCTCT TGA	
TCTGCCCAGA CTCTCACACA TTCAGATGTT TAACGTCACA TGC	
GCATGAGACA GTGATGCACA GAAACTCACT TAGGAAAGGA GAT ACAGGGATTT CATAGGAATG CAGTAAAAAA AAAACCATGG CCT	
ACAGGGATTI CATAGGAATG CAGTAAAAAA AAAACCATGG CC.	HARICICG AG
(2) INFORMATION FOR SEQ ID NO:307:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 239 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:307:

GGGGTTGTCT GAGGCCCAGA GGTCGTATAA GGGCCGCTCT ACGGTGTCCT GGGGCCCGGG

WO 98/45437

7		P	CT/US98/06956	
	CTTGGCCCTT GTTGCAGAAG GGTTGAGGAG CCGGGCTGGG AGCTCGCCCT GCTTGGCCAG CTTCTCCCAT AGCTGCTCCT TTGGGGACCT GGTGGGCGAG GACGTCTTTG GGGGCAGGGA	TCCGCCTGAG	CTTCTTGGCG	120 180 239
	(2) INFORMATION FOR SEQ ID NO:308:			
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 533 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 			
	(ii) MOLECULE TYPE: cDNA			
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO	:308:		
	GCGCACCATC CTGGGAAGTG CATGTCTCAG ACCAACTCCA CGCATCCTGC ATCCTTCAGA TGAGCTCACT CGGGTCACAC ACTCCAGCTT GTGGCAGCAC CAGCCACTTG AAATCCACGC CCACGGAGAC TGAGCCTGGC TGAGTCCTTC ACTAACACCC AGCACATCCC TGGGGCTGGT GTGGCTGTTG AAGGAGCGGG GACCCCCAGA GCTGGCACAG GGCCGGCCGG GGCTCCCTCC ATGGCTGTGA TCCCCTCTAC TCCGCCGAAC TCGCCTATGC CCCTCCTTTG AGTTCAAGTG CACGAGCCCT CCCTACCACA GCCAGCTCCA TCCTGAGGGA AGTGAGAGAA AAGAACGTCC (2) INFORMATION FOR SEQ ID NO:309: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 297 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	CAAGCCTTAA CGGTGGCCAC GTGAGTCCAC GCATTTCTGC TGCACTCCTA AGACACCCAC ATTTCCTGGC	CTCAGCCCA ACCATGCACT GACCACCATG TGCCGTGTAC CACGCCCAAG ATCCTCCCA TTCCAAGCCA	60 120 180 240 300 360 420 480 533
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO	.300.		
	(AI) SEQUENCE DESCRIPTION. SEQ ID NO	.30).		
	GAATTCGGCC AAAGAGGCCT ACCCTAAAAC ATTTATTCAGGCCGCCAAAAA TGGCTGGGGC AATTATAGAA AACATGAGCAGGTGGGATTC TGCTCGTGTT CCAAATCATC GCCTTTCTGCCGGCCCCACAA CGGCAGTGTC CTACATGTCG GTGAAATCATCCACAAGACAA AATGGTTCGT GCCTTGGGGA CCCAATCATT	CCAAGAAGCT TGGGAGGCTT TGGATGCCCG	GTGCATTGTT GATTGCTCCA TAAGAACCAT	60 120 180 240 297
	(2) INFORMATION FOR SEQ ID NO:310:			
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 248 base pairs(B) TYPE: nucleic acid			

- (C) STRANDEDNESS: double (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:310:

GAATTCGGCC	AAAGAGGCCT	AGGGTTTAAG	AGCTGTGGAG	GACTGAAAAC	TGGATAAAAA	60
GGGGGTCCTT	TTCCTTGCCC	CTGTCTCTCA	CTCAGATGCG	CTTCTTTTTC	GCCACTGTTT	120
GGCAAAGTTT	TCTGTTAAGC	CCCCAGTTCT	CCAGGTGCGT	TACTATTTCT	GGGATCATGG	180

ACCTCGAG

GGTCAGTTTT AGGACACTTG AACACTTCTT TTCCCCCCTC CCCAGTTCTC CAGGTGCGTT

240

248

(2) INFORMATION FOR SEQ ID NO:311:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH; 343 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:311:	
GAATTCGGCC AAAGAGGCCT AGGTAAATAA CTAATATTGA TGTATTTTTA TATTTTAATA TAGACTAGTA AACTATGCAG AGTTAAGTGT TACATTAGAA TCTTGAACTC TCCTAACATT TCTCTTCCTC AGTTTCCTAT TGTTTTGGTA GAGTAGTAG ACATTTGCGA GATTAATTTA GAGTTGGTAG ATACATTCTG GATTTCATTT TACTTTAGAT AGCAGGTTTG GCACTTTAAA TATATTTAAT TCAGTAAGAG AATAACTGAG TATGAGCTGT ATCCTCATCT TACTGTTGAA GACATCCCAA ATAGTTGGGT GTGCACTGTG GCGGGATCTC GAG	60 120 180 240 300 343
(2) INFORMATION FOR SEQ ID NO:312:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 268 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:312:	
GAATTCGGCC AAAGAGGCCT ACGGGAGGC GCGCCCGCGC TGAGTCGGCG GCGGTAGCC ACTCCATGCC CTTGTCCGAT GGTTTGCAAC TCCGATTTTG CACACCGCTC CACCGTGCCC CCCAGCGCAC ACCCATTCAC ACTCACGCCA ACACTCTCGC TGAACACTTT TATAATTGTT AGGCGTGGCC GTTGGGACTT TGGGCGCAGC GCGGCTGATA CTGCGTCTGG AGGATTGATA TTTACTTTTG CATTGCGGTT ACCTCGAG	60 120 180 240 268
(2) INFORMATION FOR SEQ ID NO:313:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 354 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:313:	
GTCTCTCGCC GCCGGAGGAA GATGANGCTG AAGATTGGAT TCATCTTACG CAGTTTGCTG GTGGTGGGAA GCTTCCTGGG GCTAGTGGTC CTCTGGTCTT CCCTGACCCC GCGGCCGGAC GACCCAAGCC CGCTGAGCAG GATGAGGGAA GACAGAGATG TCAATGACCC CATGCCCAAC CGAGGCGGCA ATGGACTAGC TCCTGGGGAG GACAGATTCA AACCTGTGGT ACCATGGCCT CATGTTGAAG GAGTAGAAGT GGACTTAGAG TCTATTAGAA GAATAAACAA GGCCAAAAAAT GAACAAGAGC ACCATGCTGG AGGAGATTCC CAGAAAGATA TCATACTTCT CGAG	60 120 180 240 300 354
195	

- (2) INFORMATION FOR SEQ ID NO:314:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 514 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:314:

GAATTCGGCC	AAAGAGGCCT	AGTGCAAGAA	CATGAAGCAC	CTGTGGTTTT	TCCTCCTGCT	60
GGTGGCAGCT	CCCAGATGTG	TCCTGTCCCA	GGTGCACCTG	CAGGAATCGG	GCCCGGGACT	120
GTTGAAACCT	TCGGACACCC	TGTCCCTCAC	CTGCTTTGTC	TCGGGTTACT	CCCTCAGTAG	180
TGTTCACTAT	TGGGGCTGGA	TCCGCCAGTC	CCCAGGGAAA	GGACTGGAGT	GGATTGGGAA	240
CATCCATCAC	AATGGTAGAA	CCAATTACAA	CCCGTCCCTC	GCCAGCCGCG	GTTCCATCTC	300
AGCCGACACG	TCC.AAGAACT	CCCTCTCCCT	GAATCTGACC	TCTGTGACCG	CCGCAGACTC	360
GGCCGTCTAT	TTCTGTGCGA	GCGGCCCTAT	TGCCTCCTTT	GAATCGACGA	CTCTAAAGGT	420
GGGCGGAGAC	TTTCACTCCT	GGGGCCAGGG	AATCCTGGTC	ACCGTCTCCT	CAGCATCCCC	480
GACCAGCCCC	AAGGTCTTCC	CGCACAGCCT	CGAG			514

- (2) INFORMATION FOR SEQ ID NO:315:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 215 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:315:

GAATTCGGCC	AAAGAGGCCT	AGGACACTAG	AATTATTAGT	GTTCATTTTC	ATCTAAGATC	60
TTTATTCTCT	AACGTTCTTG	GTCCTATTGA	AACATTGCAG	TATGCAAAAC	TACTGCAATG	120
TTAAACCCAA	GAGAAAAGCC	ATTATCATGT	GTATGCTGGT	CATCATGATC	AGTGTGGTAC	180
ΔΑΓΤΤΤΤΑΔΑ	AATAAACTAT	CATGCCCTTC	TCGAG			215

- (2) INFORMATION FOR SEQ ID NO:316:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 788 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:316:

GAATTATGTA	CGCCCTCTTC	CTCCTGGCCA	GCCTCCTGGG	CGCGGCTCTA	GCCGGCCCGG	60
TCCTTGGACT	GAAAGAATGC	ACCAGGGGCT	CGGCAGTGTG	GTGCCAGAAT	GTGAAGACGG	120
CGTCCGACTG	CGGGGCAGTG	AAGCACTGCC	TGCAGACCGT	TTGGAACAAG	CCAACAGTGA	180
AATCCCTTCC	CTGCGACATA	TGCAAAGACG	TTGTCACCGC	AGCTGGTGAT	ATGCTGAAGG	240
ACAATGCCAC	TGAGGAGGAG	ATCCTTGTTT	ACTTGGAGAA	GACCTGTGAC	TGGCTTCCGA	300
AACCGAACAT	GTCTGCTTCA	TGCAAGGAGA	TAGTGGACTC	CTACCTCCCT	GTCATCCTGG	360
ACATCATTAA	AGGAGAAATG	AGCCGTCCTG	GGGAGGTGTG	CTCTGCTCTC	AACCTCTGCG	420
AGTCTCTCCA	GAAGCACCTA	GCAGAGCTGA	ATCACCAGAA	GCAGCTGGAG	TCCAATAAGA	480

- (2) INFORMATION FOR SEQ ID NO:317:
 - (i) SEQUENCE CHARACTERISTICS: .
 - (A) LENGTH: 214 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:317:

GAATTCGGCC AAAGAGGCCT	AAATCATCCT	GATGATGGTT	TTCTTACATA	AACATGAGCT	60
TCTGACCATG TACCATGGAT	GGGTTCTCAC	TTCCTGCTAT	ATCCTGATCA	TCACTATTGC	120
AAATATTGCA AATTTGGCCA	GTACTĢCTAC	TGCAATCACA	ATCCAAAGGG	ATTGGATTGT	180
TGTTGTTGCA GGAGAAGACA	GAAGCAAACT	CGAG			214

- (2) INFORMATION FOR SEQ ID NO:318:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 267 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:318:

GTTGTCTTTT	TTCCCCTTTA	TAGCTGCTGG	AGTGAATTTT	AGAAAGCCTA	AGTCATACAT	60
CACATTGCTT	CATGGGCATC	CCAGTACACT	TTGGATTTTA	TTTTACATCC	TTACTGATCT	120
GATTCTCATC	TCTGTCTCTT	CATGGTTCTC	TGCCTTCTAG	TTACACTGGT	GACCTTTCAA	180
AACCTTTACC	ACATTGAGTT	CATTCCTTAC	TTTTCACTCT	TTCTCTGCCT	GGAGTGTTCT	240
GCCCCATCTT	TACGTGGCAC	GCTCGAG				267

- (2) INFORMATION FOR SEQ ID NO:319:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 256 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:319:

GAAGCTTTCA	GGCTATCTTC	TAGTCAAGAT	GAGTGATAAG	CCAGACTTGT	CGGAAGTGGA	60
GAAGTTTGAC	AGGTCAAAAC	TGAAGAAAAC	TAATACTGAA	GAAAAAAAAT	ACTCTTCCCT	120
CAAAGGAAAC	TATCCAGCAA	GAGAAAGAGT	GTGTTCAAAC	ATCATAAAAT	GGGGATCGCC	180
TCCCAACAGC	AGATTTCGAC	ATTACCTGAG	AGTCTTGATT	TTAGGCTTGT	TTTTTGTAAA	240
CCCATGTGTT	CTCGAG					256

- (2) INFORMATION FOR SEQ ID NO:320:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:320:

GCTGCGTGTG	ATGGAGACCA	AACCCGACAA	GGCAGTGTCC	ATCATTGAGT	GTGACATGAA	60
CGTGGACTTT	GATGCTCCCC	TGGGCTACAA	AGAACCCGAA	AGACAAGTCC	AGCATGAGGA	120
GTCGACAGAA	GGTGAAGCCG	ACCACAGTGG	CTATGCTGGA	GAGCTGGGCT	TCCGCGCTTT	180
CTCTGGATCT	GGCAATAGAC	TGGATGGAAA	GAAGAAAGGG	GTAGAGCCCA	GCCCCTCCCC	240
AATCAAGCCT	GGAGATATTA	AAAGAGGAAT	TCCCAATTAT	GAATTTAAAC	TTGGCGCGCT	300
CGAG						304

- (2) INFORMATION FOR SEQ ID NO:321:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 298 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:321:

GAATTCGGCC	AAAGAGGCCT	ACTCTTACAC	CTTCCGCTCC	GTGGGCACCT	TCAATATCAT	60
CGTCACGGCT	GAGAACGAGG	TGGGCTCCGC	CCAGGACAGC	ATCTTCGTCT	ATGTCCTGCA	120
GCTCATAGAG	GGGCTGCAGG	TGGTGGGCGG	TGGCCGCTAC	TTCCCCACCA	ACCACACGGT	180
ACAGCTGCAG	GCCGTGGTTA	GGGATGGCAC	CAACGTCTCC	TACAGCTGGA	CTGCCTGGAG	240
GGACAGGGGC	CCGGCCCTGG	CCGGCAGCGG	CAAAGGCTTC	TCGCTCACCG	TGCTCGAG	298

- (2) INFORMATION FOR SEQ ID NO:322:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 320 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:322:

GCGCCGTGTC	CTTTTGCGTT	GGTACCAGCG	GCGACATGAC	GGGGTACACT	CCGGATGAGA	60
AACTGCGGCT	GCAGCAGCTG	CGAGAGCTGA	GAAGGCGATG	GCTGAAGGAC	CAGGAGCTGA	120
GCCCTCGGGA	GCCGGTGCTG	CCCCCACAGA	AGATGGGGCC	TATGGAGAAA	TTCTGGAATA	180
AATTTTTGGA	GAATAAATCC	CCTTGGAGGA	AAATGGTCCA	TGGGGTATAC	AAAAAGAGTA	240
TCTTTGTTTT	CACTCATGTA	CTTGTACCTG	TCTGGATTAT	TCATTATTAC	ATGAAGTATC	300
ATGTTTCTGA	AAAACTCGAG					320

- (2) INFORMATION FOR SEQ ID NO:323:
 - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 307 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:323:

GCAAAAATCT	CAGGCCCCAG	AAAAGCCTCT	TGTCATCTCT	CAGATGGGTT	CCAAAAAGAA	60
GCCCAAAATT	ATCCAGCAAA	ACAAAAAAGA	GACCTCGCCT	CAAGTGAAGG	GAGAGGAGAT	120
GCCGGCAGGA	AAAGACCAGG	AGGCCAGCAG	GGGCTCTGTT	CCTTCAGGTT	CCAAGATGGA	180
CAGGAGGGCG	CCAGTACCTC	GCACCAAGGC	CAGTGGAACA	GAGCACAATA	AGAAAGGAAC	240
CAAGGAAAGG	ACAAATGGTG	ATATTGTTCC	AGAACGAGGG	GACATCGAGC	ATAAGAAGGA	300
ACTCGAG						307

- (2) INFORMATION FOR SEQ ID NO:324:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 299 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:324:

GCACTTCTGA	GAGGATGCTG	GGAATCTGCA	GGGGGAGACG	GAAATTCTTG	GCTGCCTCGT	60
TGAGTCTTCT	CTGCATCCCA	GCCATCACCT	GGATTTACCT	GTTTTCTGGG	AGCTTCGAAG	120
ATGGAAAGCC	CGTGTCTCTG	TCACCGCTGG	AGTCCCAGGC	ACACAGCCCC	AGGTACACGG	180
CCTCCAGCCA	GCGGGAGCGC	GAGAGCCTGG	AGGTGCGCAT	GCGCGAGGTG	GAGGAGGAGA	240
ACCGCGCCCT	CCGCAGGCAG	CTCAGCCTGG	CCCAGGGCCG	AGCCCCACCC	ATCCTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:325:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:325:

GAATTCGGCC	TTCATGGCCT	ACTCCAAACT	CATGCCCTTG	TTTTTATCTC	TGCCCTTGGA	60
TGGCTGTCTT	CTATTTTCAC	TCACAATTTC	AACACATTTT	GACTTGCTCG	TGTCACCTAG	120
GGTTTCCGCC	TCAGGTATGT	CTTCTTCCTT	AATTTCTTTG	CCGTCTTTGG	TGCTGTTGAC	180
CTCACCCTTT	CTGGGGTCTT	CCTATTGGTC	TCAGCTTCAG	GTTTGCAGCC	GCCCCTGGTT	240
TCCTGAACAT	TCCTTCTGTG	GGGTCTTCCC	CTCCTTCTCA	CCCACCCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:326:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 345 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:326:

GAATTCGGCC	TTCAGACTTG	AAGTGGAGAA	GGCTACGATT	TTTTTGATGT	CATTTTGTGT	60
AAGGGCGCAG	ACTGCTGCGA	ACAGAGTGGT	GATAGCGCCT	AAGCATAGTG	TTAGAGTTTG	120
GATTAGTGGG	CTATTTTCTG	CTAGGGGGTG	GAAGCGGATG	AGTAAGAAGA	TTCCTGCTAC	180
AACTATAGTG	CTTGAGTGGA	GTAGGGCTGA	GACTGGGGTG	GGGCCTTCTA	TGGCTGAGGG	240
GAGTCAGGGG	TGGAGACCTA	ATTGGGCTGA	TTTGCCTGCT	GCTGCTAGGA	GGAGGCCTAG	300
TAGTGGGGTG	AGGCTTGGAT	TAGCGTTTAG	AAGGGCAAAC	TCGAG		345

- (2) INFORMATION FOR SEQ ID NO:327:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 474 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:327:

GAATTCGGCC	TTCATGNCCT	ACCTTTCCGT	CCGTTCTTTC	ACGCCTTCCT	CCTCATTTTC	60
CTTCCTTCTA	TTTTCCCTTC	CCTCTTTCCG	CTTTCCTGCC	CCGTTTCCTT	CCTCCCTCCC	120
TTCCTCCTTC	CTTCCTTCCT	CTGCGTTCTT	CCTCTCTCCT	TTGTTCCTTC	CTCCTCCTCC	180
CCACTCCCTT	TTCCTCTCCT	CTTCCCACCC	CAGTCTCCTA	CTCCCCAGTC	CTCCCATCCC	240
CATGGAACAT	ACACCTGCTT	TGTCTGGGAG	CCACGTTATT	CCTGCCAGCC	AGACCCTGGC	300
CAGGAGGATC	AGGGTCACGG	TCAGCTTGGG	CCGAGAACCC	TTCACATGAG	ACAAGCTCCT	360
CTGCCAGGGT	TTCCTGTGGG	AAAGGCCCCA	CTTCCCGACC	CTCCTGGGCC	ACTGCATGGG	420
GTCCCCTCTT	CGGCTTCTTC	TCCCCTCTCC	ACCCGGCAGC	CCCCCCAGCT	CGAG	474

- (2) INFORMATION FOR SEQ ID NO:328:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 556 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:328:

GAATTCGGCC	AAAGAGGCCT	AATTTACTCC	CCAATATAAA	ACATTTTACC	TGCGATCTAT	60
GTGTACATAT	TGAATGATGT	GTAACAATAT	CATAATTTTT	ATGTTCTGCA	TTTTTTCACT	120
TATATATCTT	TATTTAAATG	GACTTAACTT	TACTAATGGA	GTAATTTTTA	GCTTTCAGAA	180
GGAGTTCTCA	CTCGAAGATA	AAGAACAGCT	CGCTAACCAC	GAAAGAGGAA	TCGATGCTCA	240
GCTTTTAGTT	GCACTTCCTA	AAGTTGCAGA	ATTAAGACAA	ATCTTTGAAC	CAAAGAAGAA	300
AGAATTCTTA	GAAATGAAAA	GAAAAGAAAG	AATTGCCAGG	CGCCTGGAAG	GGATTGAAAA	360
TGACACTCAG	CCCATCCTCT	TGCAGAGCTG	CACAGGATTG	GTGACTCACC	GCCTGCTGGA	420
GGAAGACACC	CCTCGATACA	TGAGAGCCAG	CGACCCTGCC	AGCCCCCACA	TCGGCCGATC	480
AAATGAAGAG	GAGGAAACTT	CTGATTCTTC	TCTAGAAAAG	CAAACTCGAT	CCAAATACTG	540
CACAGAAACC	CTCGAG					556

- (2) INFORMATION FOR SEQ ID NO:329:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 385 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:329:

GAATTCGGCC	AAAGAGGCCT	ACAAAACCAT	CCATAAATAA	ACAAAGCTAA	GAAAGCTAAG	60
AAACAAAGCT	AAGAAACAAA	GACTGAGGTG	AGGGAGATTT	GAGTATTTTT	TTTTCCTCTA	120
CCAACAAGTG	AAGAATTGAA	CACCTTAATC	CATCTGATCT	CCCAGGTGGA	AGCCACAAAT	180
CTTTTTTTT	GTTTTGCTCA	GCATATTGGC	ACAGTGAGAA	ATTCATTTTA	TACTCTCTGG	240
CATCTCTCTT	GTAAACTCAC	CAAGTCTCAA	TAAGTTCACA	AAGAAGGCAG	AGACAAATAA	300
CCCTAGAATG	CAGGTGATTG	TTTATTTATG	TATTTTCCTT	GTTACATACC	CACCTATACC	360
CAAGGCCTTT	GCAGAAAAGC	TCGAG				385

- (2) INFORMATION FOR SEQ ID NO:330:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 696 base pairs
 (B) TypE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:330:

GAATTCGGCC AAAGAGGCCT	AGGAAGCAGG	AGTTTATTTT	TATCCTTTTG	TAAGTATTAA	60
CTCGGTAATC ACAACAAACA	CGGAGCAATC	TCAATGCTGT	TTATCCGGAG	GACAGTCTGC	120
GGGGTCGTGA CGATTCTTTT	CTTCTTGAAG	TTTTTCCTTT	TCCTGAATCT	CATAATGATT	180
CTTGGCCATG ATTCTGTCTT	TTCAATGACT	GTGGCTTCTA	CTCGAACAAG	ATCCTTTCCG	240
AGGAGTGGCT TGCCAAGCAG	CGTGAAGTTG	TCTGCCCCAA	CCAGCAGGAC	CTTCTCCAGT	300
CGAATTCTCT CTCCACACGC	AAGGTCTAGT	TCATTTCCAA	TTAAGATCAG	GTCTTCAGAG	360
GTCACCTTCC ACTGGCGGCT	GGCAAAGTGC	ACCACGGCAA	AGAGCCTGCC	ATACTGCCCC	420
GTGACGATCA TCTCATTCAC	TTTCTTCACG	ACCTCTGCAT	GGTGTCTGGT	CTCCTCAACT	480
GGGTCTGGCA GAACAACTTC	TGGCCAAGGT	GGTGAACTCA	GGGATGTTTT	AGGAACATAT	540
CCTGGTAGAT ATGAAGTGCT	CTGTGAATTG	AACCTTCGAG	AAGCAGACCA	AAGGGAGGCT	600
GCTCCGGGCC CCGAAGGTCT	CAGGATGCTG	TGGCTGCACG	CGGACGCCAG	CCGCCCTAAG	660
GTGACCGTCA GGGAAGATGC	TGCCATGGCC	GCCGCC			696

- (2) INFORMATION FOR SEQ ID NO:331:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 378 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:331:

60	TATTCTGTTT	CCTTAGTTTT	ACATCTGGGC	AATTTTTTGT	AAAGAGGCCT	GAATTCGGCC
120	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	TCTATTGTGT	TCTGTCTCTC	ATTATATGTC
180	CTTTTCTCCT	GTCAACCTCT	CCAGGGCCCT	AGTGCCACCC	GTGGTGCAGG	GTGTGTGTGT
240	GGGGATGTCA	GGGGCGGTCA	GAGAATCCTC	ATCTGTCTCT	CTGCCTGCGT	CCATGGCTGT
300	GGGCACCTTC	TGGCACTCAG	CTGCTCCTCT	CCCTATCTTG	GAGCCGCCCT	GGAGGGGAAG
360	GCCAGAGCAG	GTCTGCTGCT	GGGATTTGGT	AGGGGCTTCT	GACCGGGTGG	CATGGAGCCA

PCT/US98/06956

GAACCCCCAG TACTCGAG	378
(2) INFORMATION FOR SEQ ID NO:332:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 394 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:332:	
GAATTCGGCC TTCATGGCCT ACATTGGGAT TATTGGTGCT GTGACCATGG CTGGCATCAT GGCGGCAGAC AGAAGTGAAT CACCTAGTTT GACCCAAGAG AGAGCCAACC TGAGCGATGA GCAGTGCACA CAGGTGACCT CCTTGTTGCA GTTGGTTCAT TCCTGCAGTG AGCAGTCTCC TCAGGCCTCT GCACTTTACT ATGATGAATT TGCCAACCTG ATCCCAACATG AAAAGCTGGA TCCAAAAGCC CTGGAATGGG TTGGGCATAC CATCTGTAAT GATTTCCAGG ATGCCTTCGT AGTGGACTCC TGTGTTGTTC CGGGAAGGTGA CTTTCCATTT CCTGTGAAAG CACTGTACGG ACTGGAAGAA TACGACACTC AGGATGGACT CGAG	60 120 180 240 300 360 394
(2) INFORMATION FOR SEQ ID NO:333:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 547 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:333:	
GAATTCGGCC AAAGAGGCCT ACTTATTTC CTGTGAAAAT GCCTACCACA AAGAAGACAT TGATGTTCTT ATCAAGCTTT TTCACCAGCC TTGGGTCCTT CATTGTAATT TGCTCTATTC TTGGGACACA AGCATGGAC ACCAGTACAA TTGCTGTTAG AGACTCTGCT TCAAATGGGA GCATTTTCAT CACTTACGGA CTTTTCGTG GGGAGAGTAG TGAAGAATTG AGTCACGGAC TTGCAGAACC AAAGAAAAAA TTTGCAGTTT TAGAGATACT GAATAATTCT TCCCAAAAAAA ACTCTGCATT CCGTGACTAT CCTTTCACAA CAGCATCAGC AACCCTTACC AGACATTCCT GGGGCCGACG GGGGGGTGTACA CCTGGAACG GCTCGGTGCA TCCTTCGTT TTGTGACCAT GATACTTTT GTGGCGAACA CCGAGTCCAA CCAACTCTCC GAAGAGTTGT TTGTGACCAT GATACTGTTT GTGGCGAACA CGCAGTCCAA CCAACTCTCC GAAGAGTTGT TTCCAAAATGCT TTACCCGACT CCTCGAGG	60 120 180 240 300 360 420 480 540
(2) INFORMATION FOR SEQ ID NO:334:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:334:	
GAATTCGGCC TTCATGGCCT AGGGGAAATT GAGTCAAGAA AAGGTTCAAT ATTTTTTAAT GGTAGAATTG ACCGTATGTG TATGTGCTTC TAGAAGTGAT TCAGGAGAGA GGGTGGAATG	60 120

GATGGTGTGG	GACGGAGGGA	AGAATTGGTG	GAATGATGTT	GGCAAAAAGG	AATAGGCTTT	180
TGTGCATAAG	TTGAGGGATT	GGCCTTGCCT	AGAAACATGG	ACAATTCGTC	TATAGTAAGA	240
AGAGAAAAGG	TAGATCTATG	ACCACAGACA	TAGTCAGATA	ATCATTTTAA	AATTCTTTAA	300
TCAATAGATG	TTTCTGATGT	ATGGCAGGCA	GTAAGCTAAG	CAGTTTACAT	ACCTGATTTC	360
ATTTAGTTAT	TATAACAATC	CCAGTCTAAA	ACTCGAG			397

- (2) INFORMATION FOR SEQ ID NO:335:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 313 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:335:

GAATTCGGCC	TTCATGGCCT	ACTCCATCCT	TAAGGTCACC	ATTGGTATGT	TCCTGCTCTC	60
TGGAGATCCC	TGCTTCAAGA	CGCCACCATC	GACTGCCAAG	TCCATCTCCA	TCCCAGGCCA	120
GGATTCCTCC	CTGCAGCTGA	CGTGTAAGGG	TGGTGGGACC	AGCAGTGGGG	GCAGCAGCAC	180
CAACTCCCTG	ACTGGGTCCC	GGCCCCCAA	GGCTCGGCCC	ACTATTCTCA	GCTCAGGGCT	240
GCCAGAGGAA	CCCGACCAGA	ACCTGTCCAG	CCCTGAGGAG	GTGTTCCACT	CTGGCCACTC	300
CTCGCAACTC	GAG					313

- (2) INFORMATION FOR SEQ ID NO:336:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 467 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:336:

GAATTCGGCC	AAAGAGGCCT	AGATTGAATT	CTAGACCTGC	CTCGGCCTCC	CAAAGTGCTG	60
GGATTACAGG	CTTGAGCCAC	CACACCTGGC	CTAGTGATTT	GTAATTTCAT	GAGCTGTTGC	120
TGTATTGCCT	TCCACAGACA	GTCAATTTAT	AATCCCTCAG	TATTATATAA	TCAGGAAGAT	180
TCAGTGAATG	GAATTTTGGG	TTGGTGGAGG	ACATATTTTT	TAATTGGTAG	ACCACTGAGT	240
GCTTTTGCAA	ATCTCCTTAA	ATCACATTAC	AGCAGGAACA	ACTATAGAAA	ATACAATTAT	300
TTAGGAGCAA	CCTGATCTGT	GAGCTAATTT	AATGAGTGGA	GCCCAGCCTA	CATGCTGAAG	360
AGCTCACATG	CCTCCTACCT	AGTTCCTTAA	CTAGGTTTTC	ACTCATGCCC	ATTTTGTCAT	420
ACTCTTGAAA	CCTTCCTATC	TTTGCATAGA	ACATTATTCT	TTCCACT		467

- (2) INFORMATION FOR SEQ ID NO:337:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 348 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:337:

,	P	CT/US98/06956	
GCTCTAGCCT CCCTGACGTT CCTGCTGTGT CTCCCCGTGT CTCTGTGCCA GCGATGTGAG CAAATGCCTC ATTCAGGAGC GAAGGGAACT GCCCCTGCTG TAAGGAGTGC ATGCTGTGCC TGCTGCGACT GTGTCGGTAT GTGCAACCCT CGGAATTACA AAGAGCACCG TGGAGGAGCT GCACGAGCCC ATTCCGTCCG	TCTGCCAGTG TCGGGGCCCT GCGACACCCC	CCGGCCTGGA GTGGGACGAG	120 180 240 300 348
(2) INFORMATION FOR SEQ ID NO:338:			
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO	:338:		
GAATTCGGCC TTCATGGCCT AGCCAGTCTT CAGTTATAAC CTCTCTCTCT CTCTCTTTT TTTTTTTTT TTTTTTGCTA ATGTAAAAAC TGTCACTAGT CAGCTGGCTC TTTTTCCTAT TCCATCCGTT GTTCTCAATA ATGACCACAG AGCCTGAGTA GCATTACAGG TCACTCGAG	TGGGATTTAA GAAATCTATC	TGGGAAAAAT AGTACCTTTC	60 120 180 240 259
(2) INFORMATION FOR SEQ ID NO:339:			
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 183 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO	339:		
GAATTCGGCC AAAGAGGCCT AGCCTTCTGC AAGATGCTTC CTGCTGGCCT TCAGCTCAGC TCAGGACTTA GATGAAGATG TTGGTAATAT CAGATGGAGG AGACTCTGAG CAGTTCATAG CCT	TCAGCCAAGA	AGACGTTCCC	60 120 180 183
(2) INFORMATION FOR SEQ ID NO:340:			
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO	:340:		
GAATTCGGCC TTCATGGCCT AGTTTTAACT GAGTGCAACA TTTTTTCGTA ATTTACCATT CTGCTGAATC AATTTTTAAT TCTAACATAA TTCAGAAGCA TTAAAAAAGA AGACTAAGGA	CCAGTTGGAA	GCTCTAAAAT	60 120 180

240

264

TTCAGCTTGT ATTGCATTGT GCAGAAAGGA AAATAGTCTA GCTAATTTAC TTTTCCTATG

AAAAACCTTA GAAGGCTCCT CGAG

- (2) INFORMATION FOR SEQ ID NO:341:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 412 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:341:

GAATTCGGCC	TTCATGGCCT	AGCCTTTCTA	GTCTTCCCTC	TTCTGTAGGA	ATANCATGTT	60
CCTCAAATGG	TCCTGAACTT	TTTCACCATT	TTGGTGAACC	CTTTTAAAGT	AAATTTACTC	120
AATGCTTTAA	AATTCATAGT	CTTAAAATAA	ATGTGAATTT	TGTTTCCAGG	TATTTATTCT	180
GGGGTACAAA	AACTTCCCAG	AATTTACAGT	AGGAAAGGAA	ACCCCTTTAT	GATGTGGCTT	240
ATTATTACAA	GCATTCAGAA	ATGATGCTGG	CTAAGTCAAA	TCATTCCTTG	AGACAGTGAT	300
TCCTAAATGT	AATGCCGCCT	TCCTGAACTC	TCACATATTC	TATATCATGG	AAATTTTATT	360
AAATATATTT	TTAGCCTTTT	GTAACCTTAG	TCTTGTTTTG	AGCAATCTCG	AG	412

- (2) INFORMATION FOR SEQ ID NO:342:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 466 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:342:

GAATTCGGCC	TTCATGGCCT	AGGGATTATA	GGTGTGAGCC	ACCGCGCCCG	GCCAGGAATC	60
ATTTTTATCC	AGGTAAGGCA	TACAGAACCG	GAGGGTTCTT	GTCTAAGTTG	TACCATGAAT	120
GTGTGCTCAG	TGGCTACTTT	GAAATAGACT	TACTGTACAA	TCCCTGAGCA	GGAATGAAAA	180
TAAAAGCTGG	AAATCACGGG	TTGCTCTGGG	GTTTTCAGGA	AGGTGTCGTC	CGTCTGGGGT	240
GAGTGTCCTC	CTTTCTCANG	GGATTTCATG	TGGCATTATT	TTGTTTTCAT	CTGAGAGGCA	300
ACATAAGCTG	GGAGGGAAGG	GCTGCAAAGA	GGGGGCCAGG	ACAAATGTGT	ACCTGGGGGC	360
CCCCATTTTG	ACTCCACCCT	GAGCTGGGGC	TGGGCCACAG	GAGGGCAGAG	GGAACACTTT	420
$\operatorname{GGGACGGGGA}$	GGGAGCCCCT	GGACTGAAAG	AATGGGGTGA	CTCGAG		466

- (2) INFORMATION FOR SEQ ID NO:343:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:343:

GAATTCGGCC	TTCATGGCCT	AGAATTTTGG	AGTCTTTATC	ATAGGTAACC	TGGACCACAG	60
TTACTATTTA	TTGACAATGT	GATTGAGTGT	ATGGAGGAAA	GCACAGTGGA	TGCTAGGCTT	120
TGTAAATATG	GGGATGTAGA	AAAGCAGATA	GTTCAGTGTC	TACCTTTTTC	TAGAACTACC	180
TTGAACCTTA	AATTTTAAGT	CATGTTCATT	GCTAGAAAAT	TAAATGTACT	TATTAAAACC	240
AATGAAAAAG	CACATTTCTG	AAATGAAGTT	AGAGATAATC	TCTGTGTCTT	ATAAAAAGAC	300
ATTAATAAAA	ATCTGGTAAG	GACTCGAG				328

- (2) INFORMATION FOR SEQ ID NO:344:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 416 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:344:

GAATTCGGCC	TTCATGGCCT	AGTGACCAGA	CATAAGAACT	CATTTTTAGT	TAAAGCATTT	60
TAAAAAAGTA	TACAAGGCAG	AGTTGCAAAC	AATCTCAGCC	TATGAAAAGG	ACAGCTGCAG	120
TCAATGTTCC	CACTAATATT	TTCCATCCGT	GTACTGAGTG	AATTTGTAAT	GTGCAACTCA	180
TGTCAAGAAA	ATAAACAGAT	GTGCACCACA	AGCGGAACAA	CAATGAAAGA	ACTTACATAG	240
ATTTTTTATTA	AGATTGAACT	TTTGATGTTG	ATTCCACTGG	TAAGAGAGCA	CTGTAGGCAA	300
AGGTCTTGTA	TTTATAAAGT	TATCTCCTAT	TGAGGAAGAT	GAAGATGTCA	ATACTCCCCA	360
ACAGAATGCT	TTGAGCTCTT	TCTAGTAGAT	CTGTGCCAAC	TCTGAAACAC	CTCGAG	416

- (2) INFORMATION FOR SEQ ID NO:345:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 344 base pairs

 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:345:

GAATTCGGCC	TTCATGGCCT	AGTAAATACA	АААТАСАААА	ATACTGGTGA	GAGAATGGGA	60
TGATGATTAT	ATTCCTGGTT	CAGTTTTTCT	TCCTGAGAAA	TTTGATAATA	CATCTTTTGA	120
TTTTTAATAA	GTGAAATAAC	TGGTGACTGT	GTTGTATGTG	TGTGTGTGTG	TTTTTTTTT	180
AAATTTTTTT	TAGAAGTGTG	AAAAGAAACT	TCATCCACGG	AAACTTCAGG	ATAATTTTGA	240
AACAGGCAAG	TCATTTCCTA	TCTTTTTATA	ATCTCTGCCT	TGTGGGATTT	GGTTTGGTTT	300
ACCTAACTTT	GATTTTAGTG	GGAGTATGTG	AGCTGTGACT	CGAG	le le	344

- (2) INFORMATION FOR SEQ ID NO:346:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 544 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:346:

TTCATGGCCT	AGCCTTCGGA	ACCCCACCAG	AGTCACAGCC	AGGAAGGGCA	60
CCAGGCCGAA	GGCTCACGCC	ACAGGGAGGG	CAGCTAGGAC	ATGGGGGGAA	120
CCAGGGAGTC	CTGGAAGGGG	ACGACGCCCC	CGGCCAGTCC	CTGTACGAGC	180
GAGGATGCTG	GACATCTCGG	GGGACCGGGG	CGTGCTGAAG	GACGTCATCC	240
TGGAGACCTA	GTGGCGCCTG	ATGCTTCGGT	GCTAGATGCT	TCGTCTTGGG	300
GACTCCCAAG	GCCCCAGCTC	CATCTTTACC	TCAGAGCCTC	CTGAACCTCC	360
TCACCTTCCT	CCAGCCTCAC	CACTCCTCCC	TGGACCTGCA	GCTCCGCACC	420
TCAGAACTAC	CCCTTCCAGG	GCCTCAGAAC	TACCCCTACG	GTTTCTCCTG	480
	CCAGGCCGAA CCAGGGAGTC GAGGATGCTG TGGAGACCTA GACTCCCAAG TCACCTTCCT	CCAGGCCGAA GGCTCACGCC CCAGGGAGTC CTGGAAGGGG GAGGATGCTG GACATCTCGG TGGAGACCTA GTGGCGCCTG GACTCCCAAG GCCCCAGCTC TCACCTTCCT CCAGCCTCAC	CCAGGCCGAA GGCTCACGCC ACAGGGAGGG CCAGGGAGTC CTGGAAGGGG ACGACGCCCC GAGGATGCTG GACATCTCGG GGGACCGGGG TGGAGACCTA GTGGCGCCTG ATGCTTCGGT GACTCCCAAG GCCCCAGCTC CATCTTTACC TCACCTTCCT CCAGCCTCAC CACTCCTCCC	CCAGGCCGAA GGCTCACGCC ACAGGGAGGG CAGCTAGGAC CCAGGGAGTC CTGGAAGGGG ACGACGCCCC CGGCCAGTCC GAGGATGCTG GACATCTCGG GGGACCGGGG CGTGCTGAAG TGGAGACCTA GTGGCGCCTG ATGCTTCGGT GCTAGATGCT GACTCCCAAG GCCCCAGCTC CATCTTTACC TCAGAGCCTC TCACCTTCCT CCAGCCTCAC CACTCCTCCC TGGACCTGCA	TTCATGGCCT AGCCTTCGGA ACCCCACCAG AGTCACAGCC AGGAAGGGCA CCAGGCCGAA GGCTCACGCC ACAGGAGGG CAGCTAGGAC ATGGGGGGAA CCAGGAGGTC CTGGAAAGGGG ACGACCCC CGGCCAGTCC CTGTACCGAGC GAGATGCTG GACATCTCGG GGGACCGGGG CGTGCTGAAG GACGTCATCC TGGAGACCTA GTGGCGCCTG ATCCTTCGCT GCTAGATGCT TCGTCTTGGG GACTCCCACAG GCCCCAGCTC CACTCCTCCC TGGACCTCC CTGAACCTCC TCAGAACTAC CCCTTCCAGG GCCTCAGAAC TACCCTACG GTTTCTCCTG

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CGTAACCTTC TGCCTACCTT CCTGAGAGTG GTTGGTGACA GCAGCCGGGG CTAGAAACCT CGAG	540 544
(2) INFORMATION FOR SEQ ID NO:347:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 570 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: CDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:347:	
GCCTTCATGG CCTACCCAGT GATTGTCACC ATGGCCAGCA AGAGGAAATC CACCACACCA	60 120 180 240 300 360 420 480 540 570
(2) INFORMATION FOR SEQ ID NO:348: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:348:	
GAATTCGGCC TTCATGGCCT AGAAAAAAGT TTTCAAAGGG AAGTAATCTT AAATCTGTAT ACTATTTCT ATGATGGAAA TTCTGTGAAG AAACAATAAC AAATTCTCCC TGACTCCTGT CTGTCCTAAT AGTAAGGTGG TCTTTCTTCT AATCTCCCCA TCCATCCACC CATCAGGAAG CAACAGGGTA CCTTGTGTA GTAACTGTAG ATTTCTGACT TCTTCTCGCA CCTTCAGCTG GAGCACCTGT TGTAAGATGT GCTGCCGGAG GTTCTCCTGG GCAATCCCCA TTCGCTCGAG	60 120 180 240 300
(2) INFORMATION FOR SEQ ID NO:349:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 424 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:349:	
GAATTCGCCC TTCATGGCCT AACAACCACC ACCACCTGGA CGCCCAGCAG CACAACCACC ATAGCCGGCC TCAGGGTCAC AGAAAGCAAA GGGCACTCAG AATCATGGCA CCTAAGTCTG GACACTGCCA TCAGGGTTGC ATTGGCTGTC GCTGTGCTCA AAACTGTCAT TTTGGGACTG	60 120 180

CTGTGCCTCC TCCTGTGGTG GAGGAGAAGG AAAGGTAGCA GGGCGCCAAG CAGTGACTTC TGACCAACAG AGTGTGGGGA GAAGGGATGT GTATTAGCCC CGGAGGACGT GATGTGAGAC CCGCTTGTGA GTCCTCCACA CTCGTTCCCC ATTGGCAAGA TACATGGAGA GCACCCTGAG GACCTTTAAA AGGCAAAGCC GCAAGGCAGA AGGAGGCTGG GTCCCTGAAT CACCGACGCT CGAG	240 300 360 420 424
(2) INFORMATION FOR SEQ ID NO:350:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 445 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:350:	
GAATTCGGCC TTCATGGCCT AATTAGATTA TTTTGAGCTT GGGAACACTT GTACATGGTT CCCCGGGACA TAAATGTAGA AGTTCTGTAG AGCAGTATCT TCACATTGAG GGATGTGAAG GCATTTGAGAT TTTAATGTAA TTTTAGAGTTC TTCATATGTCT TTCCTAGGAT CAGATATCT CCGATGATAC ATTCAGAATC TTCATATGCCT CAGGGTAAACA ATCCTCCAGG ACCCTAAACA GATGGACAGT TGATGCATTT CAGGGTAAGC GAGTTATTC AACACTAATT TTGAATAAAA CAATTCAGTA TGCTTGTCAT TTGTTAACTA GAGTTATTC AAACATAATT TTGAATAAAA AATAAATTTT AATAAATACA TGTTCCCAAT TATGCATATA AAAGCAATCC TCGAG	60 120 180 240 300 360 420 445
(2) INFORMATION FOR SEQ ID NO:351:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 278 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:351:	
AATTCGGTTC ATGGCCTAAT TTTGGAACTA AGAGACAGAT TTTTTGTTTT TGTTTTTTA AATAGCTGTT AACTAGCTC ATAAGGACAA AATACAGAAA GACAGTTCTT ACAGACAAAT AGAAGCAAAA AAAGGAACCA ATGGAAAATT TAAAACTGAA AAATAGAATA TCTGAAATAA AAAATTCACT AGATGACATA ACTGTTGAGG AAAGAGTATG TGAATTTGAA GAAAGAGCAA TAGAAATGTT CCATTGTAAA GAACAAAGAG AACTCGAG	60 120 180 240 278
(2) INFORMATION FOR SEQ ID NO:352:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 457 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:352:	•
GAATTCGCCT TCATGGCCTA CAGATTATCT TACACTGAAC TGATCAAGTA CTTTGAAAAT GACTTCGAAA TTTATCTTGG TGTCCTTCAT ACTTGCTGCA CTGAGTCTTT CAACCACCTT	60 120

60 120

TTCTCTCCAA CCAGACCAGC AAAAGGTTCT ACTAGTTCT TTTGATGGAT TCCGTTGGGA TTACTTATAT AAAGTTCCAA CGCCCCATTT TCATTATATT ATGAAATATG GTGTTCACGT GAAGCAAGTT ACTAATGTTT TTATTACAAA AACCTACCCT AACCATTATA CTTTGGTAAC TGGCCTCTTT GCAGAGAATC ATGGGATTGT TGCAAATGAT ATGTTTGATC CTATTCGGAA CAAATCTTTC TCCTTGGATC ACATGAATAT TTATGATTCC AAGTTTTGGG AAGAAGCGAC ACCAATATGG ATCACAAACC AGATGGCAGG ACTCGAG	180 240 300 360 420 457
(2) INFORMATION FOR SEQ ID NO:353:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 295 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:353:	
GAATTCGGCC TTATGGCCTA GCAGGCGCCA AGGTAACATG AACAACAGC TGCTTGCTGC CCCCAAGCTT TAGTTTCTAG TGGGCCTGGA GCAATTGTGA AGGACAACTC CACCCAAGGC CCAGTATTGA AGAGGGGTAG GGTGGGAGGA TTGTACATAT CGCGAACGCT TGGCAAATCT CTAGATTTTT TTTCCTCCTA GGAAATAATA ATTTTTAAAA AGGCTTGTAA AAAATAATAA AATGTTTCAT GACAGCAGCA GATGTAAAAC TCCCAGTACT CCGGGCGACC TCGAG	60 120 180 240 295
(2) INFORMATION FOR SEQ ID NO:354:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 414 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:354:	
GCCTAGACAT GATGGTGGCC ACGTGCCAGG GGACCACACC CTATGTACAA AGCAGGAGAA TGATGCTCCC AGCTGAGCTG CAGGATGGGC GCTGGGCTGA CTGGAGGGGT AGACGGGGTG GGGTCTGACC CCATTAGCCT TTCCCCATCC AACCTGGGCC CCCATAAGCC ATTCTCTGGC CCTCTGCACA AGACAGACTC AGCAAATCTG CGAGGTATGG GGATTCTGCC AACTCCCCAC CTCGCCTCAC CTTCCCTAGG TCTGCGCGTT AGGAGATTCT GGAGCCAGAG GGAGAGACCC CAGAAACTCC CCGGTCGGCG ACCCAGCCCG AGACGCCTGG GGTCCCAAGG GAAGCTGAAC GCCCGCAGAA TGGGGAAATG GAGAGAGAAC CTGAAAGAGC CCCTGTAACT CGAG	60 120 180 240 300 360 414
(2) INFORMATION FOR SEQ ID NO:355:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 443 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:355:

GAATTCGGCC ATCATGGCCT ACTCCCGAGT AGCTGGGACT ACAGGCATGT GCCACCACGC 60
CCAGCTAATT TTTTGTATTT TTTTTAGTAG AGATGGGGTT CCACCATGTT AGCTAGGATG 120

	PCT/US98/06956
ATTTCGATTT CCTGACCTTG TGATCCGCCC GCCTCGGCCT CCCAAAAT	
GGTGTGAGCC ACCACGTGGC CTCATTTCAT TCTTTCATGT GGATAGGC AGTATATAGT GAGGAGCTTC TTCTTCTCT AATGATCTGC AATGTCAC	
TGAAGGTTGC ACATATACAT GGGAATTTTT TAGTCTGGCA TTAAATGT	
TTCCTGCAAA CGTTTTTGTT TTTATTTCCT ACTGTTCCCT TCACGTAC	
TAAACTCTCT AATGTGTCTC GAG	443
(2) INFORMATION FOR SEQ ID NO:356:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 286 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:356:	
GCGATTGAAT TCTAGACCTG CCTCGAGCTC AAGAGCAGCC CACCTGTT	CA GTATTCATAC 60
CCACATATCC ATAATAGAGC TCTTCTCTTC CCCCGGGTTC CTCTGCCT	
CTTAGCAGAT GCCATCTGCA GGGCCACTTG GCTGCCCGTA GCAGTAAC	
CACATTTACT CCCTCAGCCT CAGCTGCTCC TGCAGCCCAG GCACTGTC TTGCTCAAGC CTCCACCATC TCGGTTACAC CCCACAGCCA CTCGAG	TC TGTCTCTGCA 240
TIGGICHAGE CICENCATE ICOGITACAE CCCACAGGCA CICGAG	200
(2) INFORMATION FOR SEQ ID NO:357:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 269 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:357:	
GAATTCGGCC TTCATGGCCT ACTGCCTTAG CCTCCCAAAG TGCTGGGA	TT ACAGGCGTGA 60
GCCACCATGC CCAGCCCTAT AGTAGTTCTT CTTTTGCCCC TTAATATC	
TCCTGTACCC TGCCTGAACC CTCCTCCTCT TTTTGTTCTG ATCTTTGA CCATAATTCT TTAGAGCAGG TATGTCCCGA GTCTGAAACA TGCCCTTA	
TCTGGACATT TCTCACCCCA TCTCTCGAG	269
(2) INFORMATION FOR SEQ ID NO:358:	
(i) SEOUENCE CHARACTERISTICS:	
(A) LENGTH: 250 base pairs	
(B) TYPE: nucleic acid	
<pre>(C) STRANDEDNESS: double (D) TOPOLOGY: linear</pre>	
(b) Torozoor. Triadr	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:358:	•
GAATTCGGCC TTCATGGCCT ACCAAGGAAG CCTTTCTGTT TTTGGCCC	AA GGAGCGTCAA 60
TAAGATCTTT GAAAATACTT TGAAGTCATT TTGTGTGTGT GTATGTGC	CAT ACACACCTGA 120
TTTGTTTTAT TTTTATTTT TATTTTTGA GTTAGGGTCT GGCTCTGI AGTGCAGTGG TGTGGTCTCA GCTCACTGCA ACCTCTGCCT CCCAGGCT	
TOUBLE I CONTRACTOR OF LACING ACTION OF LOCALIDATE	עה הטינטינייייי איזייייייייייייייייייייייייייייי

AGTGCAGTGG TGTGGTCTCA GCTCACTGCA ACCTCTGCCT CCCAGGCTCA AGCCGCCCCC

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CCACCICAA	250
(2) INFORMATION FOR SEQ ID NO:359:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 258 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:359:	
GAATTCGGCC TTCATGGCCT AATGGGAGAT TGGTGGGAGT AGGGAACAC GAAAAGAAGA TAGGTTGTAT TTTGGTCATA CTGACACCAA CATGCCTAA GTGAAAAAAG CTAGCAGACA GTTGAACTGC GGCTGTGAAA CAGGAAGCC ACTCATCGTT GTAGTCATTC GTAAAGAGTA AATACTTGGA GCTATTGTA CACCACGGAA CACTCGAG	AA GGATAGCCCT 120 CG TGAGGGCTAG 180
(2) INFORMATION FOR SEQ ID NO:360:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	•
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:360:	
GAATTCGGCC TTCATGGCCT AGGAAGCCAC AGGTCGGCTC TGCATTAGC CCCTCGCTGG CCGGGGGCTC CTGGGGTTTG TCCAGCTTGA TGTCGATCA CTTTTCTCCT GGACATTCTC CATTCCGGGT AGAGCCGACG CCACACGTC TTCACGTTGT AGCCACTCTT CGCACTGGTC TCAATGAACA TGACGCTCA	AT CCCTTCTTTG 120 CG AAAAAGCTGC 180
(2) INFORMATION FOR SEQ ID NO:361:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 422 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:361:	
GAATTCGGCC TTCATGGCCT AAAGATTAGC CTGGGTAACA TAGTGAGAC TAAAAAATAA TAATAAAAAT AACATTCACA TTGGTATGT TCACTAAGC AAGGCATTCA TTAAGGTATT GTTAAAACTT GTGTTAAAGCA TGTTAAAGC TGGGATAGAA ATAAAATGTG ATAAAAAGCT GAAAGAAACC ACACAAAGC TTGAAATATT AGAGACATAA TGCTGTCTAA TAAAAAACGA CATCAAAGA ACAGTGACTG CAGACTTAAT GTTGGCCAAC CATGCATCCT CCCTAGAAA TTGATTTACT AATCTTTTAT TTAGGAAATT TACATTTTTA CATTAGTGAAG	### TTGGTTGTT

- (2) INFORMATION FOR SEQ ID NO:362:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 288 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:362:

GAATTCGGCC TTCATGGCC	r AGTTATTCTT	CTAATAGCTC	AGCTACTTTT	CCTTAAAATA	60
TCTTTTTCTC TGCAAAGCC	r tcatataatt	GTTGTTATTA	TAACAGTGAT	GATGACTGCC	120
ACTCATTACA ACTGCTGTT	TTAATCTTTG	TTGTTATTTT	AAACCATATG	TTATTTAAAC	180
CATAAACTGC ATCATAAAA	G CAGTTTCTTT	CTAATCCATG	ATGACACCTG	CTAGCCAGGT	240
ATCGTATCAA TTCTTCACA	G GTCTATTGAA	TTCTAGACCT	GCCTCGAG		288

- (2) INFORMATION FOR SEQ ID NO:363:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 264 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:363:

AAAAATTTCA	ACAAATCCTG	AAGTCTTTCT	GTGAAGTGAC	CAGTTCTGAA	CTTTGAAGAT	60
AAATAATTGC	TGTAAATTCC	TTTTGATTTT	CTTTTTCCAG	GTTCATGGTC	CTTGGTAATT	120
TCATTCATGG	AAAAAAATCT	TATTATAATA	ACAACAAAGA	TTTGTATATT	TTTGACTTTA	180
TATTTCCTGA	GCTCTCCTGA	CTTTGTGAAA	AAGGGTGATG	AAAATGCATT	CCGAATCTGT	240
GAGGGCCCAA	AACAGAGACT	CGAG				264

- (2) INFORMATION FOR SEQ ID NO:364:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 260 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:364:

GAATTCGGCC TTCATGGC	CT AGACCCTCAT	CAATAGATGG	AGACATACAG	AAATAGTCAA	60
ACCACATCTA CAAAATGC	CA GTATCAGGCG	GCGGCTTCGA	AGCCAAAGTG	ATGTTTGGAT	120
GTAAAGTGAA ATATTAGT	TG GCGGATGAAG	CAGATAGTGA	GGAAAGTTGA	GCCAATAATG	180
ACGTGAAGTC CGTGGAAG	CC TGTGGCTACA	AAAAATGTTG	AGCCGTAGAT	GCCGTCGGAA	240
ATGGTGAAGG GAGACTCG	AG				260

- (2) INFORMATION FOR SEQ ID NO:365:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 332 base pairs
 - (B) TYPE: nucleic acid

	(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(i i)	MOLECULE TYPE: cDNA	•
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:365:	
TCCGCAAGGC CCTACCATTT CGGAGCAATC AGCAGGATGT	CAAGCAGATC ATGGGTGGCT TCAAGGAGAC GAAGGAGGCT GAAGATGGCT CCAGAAGCCT TGGGCCAAGA AGATGAAGGA GCTGGAGGCA GCCAAGAAGG GGCTTGCAAA GAGGAAAAGC TGGCCATGAC ACGGGAGATG AACAGCAAGA GGTCACACCT GAGCAGCAAA AGAAGCTGCA GGACAAAGTG GACAAGTGCA GCAGAAGAAC CAGGAGAAGT ATGAGAAAGT GCTGGAAGAT GTGGCAAGA GACAAACTCG AG	60 120 180 240 300 332
(2) INFORM	ATION FOR SEQ ID NO:366:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	٠
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:366:	
CCAAAAGCAG AAAGATGAAG ACAGCTCTTA AGTTTTAATG	AGTTTTCAGA ATTAGAATAC TCAGAAATGG GATCATCGTT CAGTGTCTCT AATCTGCCGT AATAGTAGCA AATCCTAGGG AAGAATAAT CGTGAAAAAT AAGAGAAGTT AGTTAGTAAT AACATCCTTC ATAATCAACA AGAGTTACCT CTAAATTGGT TAAAGAGGTT GAAGTTGTGT CTTCAGAAAA AGCAAAAGAC AAAAGAGAGT TGCAGTGGAA GCTCCTATGA GGGAGGAATA TGCAGACTTC AGCGAGTATG GGATCTCGAG	60 120 180 240 300 330
(2) INFORM	ATION FOR SEQ ID NO:367:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 200 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:367:	
AAAAAAAAA TGAATAGTTC	TCTAGACCTG CCTCGAGTAC GGAGCGAAAC TCTGTCTCAA AAAAAAAAAA	120 180 200
(2) INFORM	ATION FOR SEQ ID NO:368:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 368 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:368:

GAATTCGGCC TTCATGGCCT	AGAGAAATGA	GGAAAAAGAA	GGAAGAATAT	TTAACTTTTA	60
GTCCTCTTAC AGTTGTAATA	TTTGTGGTCA	TCTGCTGTGT	TATGATGGTC	TTACTTTATT	120
TCTTCTACAA ATGGTTGGTT	TATGTTATGA	TAGCAATTTT	CTGCATAGCA	TCAGCAATGA	180
GTCTGTACAA CTGTCTTGCT	GCACTAATTC	ATAAGATACC	ATATGGACAA	TGCACGATTG	240
CATGTCGTGG CAAAAACATG	GAAGTGAGAC	TTATTTTTCT	CTCTGGACTG	TGCATAGCAG	300
TAGCTGTTGT TTGGGCTGTG	TTTCGAAATG	AAGACAGGTG	GGCTTGGATT	TTACAGGATA	360
TTCTCGAG					368

(2) INFORMATION FOR SEQ ID NO:369:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 299 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:369:

GAATTCGGCC	TTCATGGCCT	ACATTCGGAG	AAGTTGAAAG	AATTACACCC	AGAACACCCA	60
TGTCTACCAT	GTTACTACAT	TTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GCGTGTGCAA	120
TTTTAATTAC	AATGGTCGAG	GAAGCTCTTG	CTGAGAAGGT	GATGTTGAAT	AAAGACTCTA	180
AAGACCCTAA	AGAGTTGAGA	GAGAGCTGTG	TGGAGTTCTG	GGGCCCAGGC	ACAGCAAGTA	240
CAAAGATCCT	GAAGCAGGAG	CATTCTTGGT	GTGTTCAAGG	AAAGCAGGAC	AACCTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:370:
 - (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 289 base pairs (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:370:

GAATTCGGCC	TTCATGGCCT	ACCGCCTTTC	CATTATGCAA	CTGTGGTGGC	TTTTCTTTTG	60
TTATACGACG	ATTATTTGTC	AACCCCACTA	TCTTTGCACT	CAACCATGGG	CCCCCTGGGC	120
TCAGAGACCT	CGTGACAGTC	ATCTTCTCAT	CACCACATCT	GCAAATGTGT	GGGTGGATGG	180
GGCAGCAACA	GTCCACCTCC	TCCAAGAAGC	AGTCCCTGAT	TTTTCCTCCC	CAGACAAATC	240
TTCGTCTCTC	TGTTCTTGGA	AACTCAAAGA	ACTAAGCACC	TCCCTCGAG		289

- (2) INFORMATION FOR SEQ ID NO:371:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 540 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:371:

AATTCGGCCT	TCATGGCCTA	CAAGCTCGAT	CATTATCCTT	CTGTGAGTTA	CCATCTGCCA	60
AGTTCATCCG	ACACCCTCTT	CAATTCTCCC	AAGTCGCTCT	TTCTGGGAAA	AGTTATAGAA	120
ACAGGGAAAA	TTGACCAAGA	GATTCACAAA	TACAACACCC	CAGGATTCAC	TGGTTGCCTC	180
TCCAGAGTCC	AGTTCAACCA	GATCGCCCCT	CTCAAGGCCG	CCTTGAGGCA	GACAAACGCC	240
TCGGCTCACG	TCCACATCCA	GGGCGAGCTG	GTGGAGTCCA	ACTGCGGGGC	CTCGCCGCTG	300
ACCCTCTCCC	CCATGTCGTC	CGCCACCGAC	CCCTGGCACC	TGGATCACCT	GGATTCAGCC	360
AGTGCGGATT	TTCCATATAA	TCCAGGACAA	GGCCAAGCTA	TAAGAAATGG	AGTCAACAGA	420
AACTCGGCTA	TCATTGGAGG	CGTCATTGCT	GTGGTGATTT	TCACCATCCT	GTGCACCCTG	480
GTCTTCCTGA	TCCGGTACAT	GTTCCGCCAC	AAGGGCACCT	ACCATACCAA	CGTTCTCGAG	540

- (2) INFORMATION FOR SEQ ID NO:372:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 527 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:372:

TCGACCCCTG	GCTAATGACA	AACTATGTGA	CCTTCATGGT	GGGGGAGATT	CTGCTCCTCA	60
TCCTGACCAT	CTGCTCCCTG	GCTGCCATCT	TTCCCCGGGC	CTTTCCTAAG	AAGCTTGTGG	120
CCTTCTCAAC	TTGGATTGAC	CGGACCCGCT	GGGCCAGGAA	CACCTGGGCC	ATGCTCGCCA	180
TCTTCATCCT	GGTGATGGCA	AATGTCGTGG	ACATGCTCAG	CTGTCTCCAG	TACTACACGG	240
GACCCAGCAA	TGCAACGGCA	GGGATGGAAA	CGGAGGGCAG	CTGCCTGGAG	AACCCCAAGT	300
ATTACAACTA	TGTGGCCGTG	CTGTCCCTCA	TCGCCACCAT	CATGCTGGTG	CAGGTCAGCC	360
ACATGGTGAA	GCTCACGCTC	ATGCTGCTCG	TCGCAGGCGC	CGTGGCCACC	ATCAACCTCT	420
ATGCCTGGCG	TCCCGTCTTT	GATGAATACG	ACCACAAGCG	TTTTCGGGAG	CACGACTTAC	480
CTATGGTGGC	CTTAGAGCAG	ATGCAAGGAT	TCAACCCAGG	GCTCGAG		527

- (2) INFORMATION FOR SEQ ID NO:373:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 407 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:373:

GGCAAGAAAG GATGT	CCGCA CAGCTGGCTG	CTGCTGAGAG	CAGACAAAAG	AAGCTGGAAA	60
TGGAGAAGCT TCAGC	CTACAA GCCCTTGAGC	AAGAGCACAA	GAAGCTGGCT	GCCCGCCTTG	120
AGGAAGAGCG TGGCA	AAGAAC AAGCAGGTGG	TCCTGATGCT	GGTCAAAGAG	TGCAAGCAGC	180
TCTCAGGCAA AGTCA	ATAGAG GAGGCCCAGA	AGCTCGAAGA	CGTAATGGCC	AAACTGGAAG	240
AGGAAAAGAA AAAGA	ACGAAT GAATTAGAAG	AGGAACTCTC	CGCTGAGAAA	CGAAGAAGCA	300
CAGAAATGGA AGCTC	CAGATG GAAAAACAAC	TCTCTGAGTT	TGACACTGAG	CGGGAACAGC	360
TTCGTGCCAA GCTGA	AACCGG GAAGAAGCAC	ACACCACAAA	CCTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:374:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 322 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:374:

GAATTCGGCC	TTCATGGCCT	ACTCTGTTTT	CTCCCTGGAC	TTATGTGCTT	CGTCTGGAAT	60
GTTACATCTC	TTCCTCTCTT	TCTTTTTTT	TGGTCCCCAT	GTTGACTGTT	TTATTGGGGT	120
TTCTGGATAT	CTCGGGGCCA	CCTCACAGGA	AGCGGTTTGC	AATGAGATCA	TAAACATTGC	180
CGAAAAATCT	GTTCATTACT	GCAGCACTGT	TTCTCATCCC	CTTGACTTTC	ATCACAAGGT	240
ATCCCCTTCT	GACAATAAAT	CATCTTTAAT	CATTTCTCAG	CAACCTCAAG	CCCAGCAGCG	300
AAGAGTCACC	CCCTATCTCG	AG				322

- (2) INFORMATION FOR SEQ ID NO:375:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 480 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:375:

GAATTCGGCC	AAAGAGGCCT	ACCTAAACCG	TCGATTGAAT	TCTAGACCTG	CCCCAAAACC	60
AACAAGGAGA	ACAAGCTCAG	TCTTCTGTGT	CTTAATTTTT	GGCTTTACTC	TTAGCCCTGC	120
CCCATTTCCT	AGGCTCTCCA	CAGTCCAGCC	GCTTTGAGCT	ACTTTTCCTT	CCCTGATATG	180
TGCAGCTCTC	TCACCTCTGA	GCCTCCGCAC	CTGCTGTTCC	ACAGCACTCT	CCGCATTGCC	240
TTCTCCCACT	GTGGCTCACT	GCTGAGCTGT	GTTCAGGCCC	TTTGGGAAAC	CCTCTCTTTC	300
ACTCCTTTTC	CCTGGTCTGG	CTTGGGAGCC	CATGCTTACC	CCTGTCAGGA	CACCTTGAAA	360
CCCAGCAGTG	AAAACATGAC	ACTTCCTTGT	CTGGCTGATT	TTCTTAGTGA	AGCGAGTAGG	420
AGTTTCCTTT	GTCAGGACTT	CAGCAAGCAA	AATTCAGGAG	AGGTCATAAA	ATGTCTCGAG	480

- (2) INFORMATION FOR SEQ ID NO:376:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 283 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:376:

GAATTCTAGA	CCTGCCTCGA	GTAACCAGAG	AGTCTTGTCA	ACATTAACAC	TAGCAGTATT	60
TCCAACACTT	TATTTTTTA	ACTTCCTTTA	TTATACAGAA	GCAGGATCTA	TGTTTTTTAC	120
TCTTTTTGCG	TATTTGATGT	GTCTTTATGG	AAATCATAAA	ACTTCAGCCT	TCCTTGGATT	180
TTGTGGCTTC	ATGTTTCGGC	AAACAAATAT	CATCTGGGCT	GTCTTCTGTG	CAGGAAATGT	240
CATTGCACAA	AAGTTAACGG	AGGCTTGGGA	AACTGAGCTC	GAG		283

- (2) INFORMATION FOR SEQ ID NO:377:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 324 base pairs

 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:377:

GAATTCGGCC	TTCATGGCCT	AAACAGCAAA	GAACAACTCA	TCACCGCTCA	CGTTCAGTAT	60
CTCCTCATCG	CGGCAATGAT	CAGGGAAAGC	CGCGTTCACG	TTTACCAAAT	GTGCCATTAC	120
AGAGGAGTTT	AGATGAAATT	CATCCAACAA	${\tt GAAGGTCACG}$	TTCTCCAACC	AGACACCATG	180
ATGCCTCCCG	AAGTCCAGTT	GATCATAGAA	CCAGAGATGT	${\tt GGATAGTCAG}$	TATTTATCAG	240
AACAAGACAG	TGAGCTTCTT	ATGCTGCCCA	GAGCAAAACG	AGGACGAAGT	GCAGAATGCC	300
TACATACTAC	CAGAATGTCT	CGAG				324

- (2) INFORMATION FOR SEQ ID NO:378:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:378:

GAATTCGGCC	TTCATGGCCT	ACTGAAATTT	CAATAAAACC	AGCTTGAAAG	TTCCATTACT	60
AGAAAGATAA	GAGTGGTCAG	AAAACATTTT	TTATTAACCT	ATTTCATCTA	GTAAGAGTAT	120
CTTAAATGTT	TTTTCTCTTG	AGTACTGAAT	ACACATGCAG	GACAATGGAC	CTAAATACAG	180
TTAACTTTTG	TTTTTCACTC	CTTTGCTTTT	GCATTGTCAA	TAGTCCGGTA	AGGTTTAGGT	240
TCTATCAGAA	GTACTCAGAC	ATGCAGTGGG	CAATCGATAA	TTTCTACCTG	GGCCCTGGAT	300
GCTTGGACAA	CTGCAGGGGC	CATGGAGATT	GCTTAAGGGA	ACAGTACTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:379:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 271 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:379:

GAATTCGGCC	TTCATGGCCT	AGTCTGTGTG	TAGTGGAAAC	TCTATTGCCT	GCCCTGCACA	60
TCTGCTCCTT	TTCTTCTCTG	CACTCTGGGA	CAGCTTCTAA	AGTTTGTCCA	ACATGTCATT	120
GACTGAGTTT	TGTATCATTT	CAGTTCTGCT	CTTTACTGGT	TCCTATGTGG	ATGCTAATTA	180
TGCAAATGCA	TTTTCCACCT	CTTGCACTCC	TTTTTCTAAG	TCACCTCACT	TCTCATTTCC	240
TCATGTTTTT	CCNTTATCCT	CTTCTCTCGA	G			271

- (2) INFORMATION FOR SEQ ID NO:380:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 371 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:380:

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60

120 180

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	GAATTCGGCC TTCATGGCCT AACGCGGCCA GGCGATTCGG TGAAGCGATT CCTGCAGGCG	60
		120
		180
		240
		300
		360
		371
	(2) INFORMATION FOR SEQ ID NO:381:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 277 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	And A CHAIRMAN PROGRAMMENT OF A PART	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:381:	
	GCAGAGTTAA GCAAATTAAT TATAGCTATC TTTAAGCTAT AAATGTGTTA ACATGTATAT	
		60
		120
		180 240
		240 277
		.,,
	(2) INFORMATION FOR SEQ ID NO:382:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 290 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:382:	
	GAATTCGGCC TTCATGGCCT AGTTGTTACT GGAGTTAAAG AGAGAACTGA GAAAGACAAA	60
		120
		180
		240
		290
	(2) INFORMATION FOR SEQ ID NO:383:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 241 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:383:	
	(MI, BEGORNER DESCRIPTION: SEQ ID NO:303: .	

GAGAGTGTGG AGAGGGTACA TTTCCCTTGT ATNCTATGTT CTTCTTTCTA GTGGGTCTCA

TGTAGAGATA GAGATATTTT TTTGTTTTAG AGATTCCAAA GTATATATTT TTAGTGTAAG AAATGTACCC TCTCCACACT CCATGATGTA AATAGAACCA GGAATAAATG TGTCNTTGTG

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240 241

(2) INFORM	ATION FOR SEQ ID NO:384:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 299 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:384:	
GACGAAAGAG TATTACTGTG CTTCAACTTA		60 120 180 240 299
(2) INFORMA	ATION FOR SEQ ID NO:385:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 546 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:385:	
TAAGCGATAT AAGGTGAAGA AATTAGGGGT AGGCAGGTCT AGCCTCGATA TCTAGTGCCA GCTCATGCAG	AAAAGACGCG GCTGCTCGAA TCCAGGGAAC GGGAAATGGA AGCCAAAAAA	60 120 180 240 300 360 420 480 540
(2) INFORM	ATION FOR SEQ ID NO:386:	
(i _.)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:386:	
CAAAGTGGTT	TACATCATAG GTGTATGTTT AACTGTTCAA GAAACTGCCA AACTGTTTCC GTATTGTTTT ACATTTCCAC GAGCAGTGTT TGAGAGCTCC AGTTCTTGCA ACAAAAAGGT TCTGTTTTTT AAAGACAATT TTTTTTTCT TTGAGAGTTT	60 120 180

ATAATCCCAT AGCAATTTAT GGTAAGAACA AGACCCCTTT CCCTCACCAC CGAGTCTCGA $\ensuremath{\mathsf{G}}$

CGCCCTAGTC GCCCAGGCTG GAGTGCAGTG GTAAGCGAAT CCCTGCTACA GGCCAGAGAC TGTTCTCAGT TGGTTTTAC ACCAAGTATC GCACTTCATT CTAACACTCC ACCATTTTAC AAATGAGATT TCTCGAG

(2) INFORMATION FOR SEQ ID NO:387:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 234 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:387:	
GAATTCGGCC TTCATGGCCT AGGTCAGGTT AGTCAGCTAA TGGATAAGAG ACTTGAAATT ACTCTTTTGG GATTAGCAAA TAGAAGGGAA AAACATGATA AGGGCACAGA GCGGTGGGTC TGGGGGAAAA AGCAGAGGCA CAGTTTGAAA AAAATGTGTA AGAGACTGAC TAGGTAAGAT ATGGTCACAG TTCATAAGTC CTTTGAATTC TAGGATTAAA AAGGTGAACT CGAG	60 120 180 234
(2) INFORMATION FOR SEQ ID NO:388:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 294 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:388:	
GAATTCGGCC TTCATGGCCT ACTAGATAAG TGTCAATTCC ATCTGCTTCT GATTTCCCAC GTCACTGCCC TGGTCCACAC ACTGTGATCT TCTGCCCCCA TCTGAGTGCC GCATACTCAG CCTTGTCCCT GCATCAGACC CCGGCCCAGC ACAGTAACGA GAATGGCCTT CCTAAACACA AATCTGATTT GTTCCGCCTT CCACTTCCTA GTGGCTTCAT TCTCGTGCCC TCACTCAGGG CCCTCACACAC TGCTGTTCCC TGCACCTCCG ACACCCTTCC CAGGGCCCCT CGAG	60 120 180 240 294
(2) INFORMATION FOR SEQ ID NO:389:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 215 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:389:	
GAATTCGGCC TTCATGGCCT AAGCAAAGCT AAGTGTAAAA CTAAAAAGCA GTTTGTTGCA ACTGGTCATA AAAGTGATTA AATCTAAAGC TGGCATTAAT AAGGAAGCAA GGTAATAAAA CAAAAATATA AACAGCTTTG AGAAAGTACA CCTAATAACA AAATCTTGTA ACACAACAAA TGAAAATCAC AAAAAATATA AGGAGACTCC TCGAG	60 120 180 215
(2) INFORMATION FOR SEQ ID NO:390:	
(i) SEQUENCE CHARACTERISTICS:	
220	

- (A) LENGTH: 477 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:390:

- (2) INFORMATION FOR SEQ ID NO:391:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 247 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:391:

GAATTCGGCC	TTCATGGCCT	AGTTAGTCAG	AGTGAAATAT	TCAATAATGA	GTGGTGCAGC	60
CTTGGGACTT	GAGATTGTTT	TTGTCTTTTT	TCTGGCATTA	TTTCTGCTTC	ATCGATATGG	120
AGACTTTAAG	AAACAGCATA	GACTTGTGAT	TATTGGAACA	CTGCTTGCTT	GGTATCTCTG	180
CTTTCTTATT	GTCTTCATAC	TGCCTCTGGA	TGTTAGTACG	ACAATATACA	ACCGGTGCAA	240
GCTCGAG						247

- (2) INFORMATION FOR SEQ ID NO:392:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 366 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:392:

GAATTCGGCC	AAAGAGGCCT	AGTCATCTGC	ATTTATTATG	AGCAGCAGGT	GGGACACTTC	60
CAGCAACAGT	AAAAAAAAGT	AATTTACAAA	AGCAGGTTTC	AGTGAAGCCA	TCTGGTTGTT	120
ACCCTTGGGT	GCTCACACGT	AGATGCCAAC	CCAGAGCAGC	AGGAAGAGGA	CTCCAAAGCC	180
CATGAAGAGT	GAGGCCACTA	AGGAGATGAG	GAGCTCTTTA	TAGATATCAC	GAGTGTACTT	240
GGTAGAGGTG	ACCTCGTAAA	CGAAGAACCA	GGCGGTGAAG	AACATGCCAA	TGGCCAAAAG	300
CACCACGGTC	AGATGGGGGA	AGACAGCTGG	GTTCACTGGG	CTGGTATATC	TGCTCATGGC	360
CTCGAG						366

- (2) INFORMATION FOR SEQ ID NO:393:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:393:

GAATTCGGCC	AAAGAGGCCT	ACCCTGGGTT	AACATTCAAG	ATGGTACATG	CTGAAGCCTT	60
TTCTCGTCCT	TTGAGTCGGA	ATGAAGTTGT	TGGTTTAATT	TTCCGTTTGA	CAATATTTGG	120
TGCAGTGACA	TACTTTACTA	TCAAATGGAT	GGTAGATGCA	ATTGATCCAA	CCAGAAAGCA	180
AAAAGTAGAA	GCTCAAAAAC	TCGAG				205

- (2) INFORMATION FOR SEQ ID NO:394:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 387 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:394:

GAATTCTAGA	CCTGCCTCGA	GCCGGAGATG	GANAAGAAAG	TCAGCCTACT	CAAGGACAAT	60
AGCTCTCTGG	AATTTGACTC	TGAGATGGTG	GAGATGGCTC	AGAAGTTGGG	AGCTGCTCTC	120
CAGGTTGGGG	AGGCACTGGT	CTGGACCAAA	CCAGTTAAAG	ATCCCAAATC	AAAGCACCAG	180
ACCACTTCAA	CCAGCAAACC	TGCCAGTTTC	CAGCAGCCTC	TGGGCTCTAA	TCAAGCTCTA	240
GGACAGGCAA	TGTCTTCAGC	AGCTGCATAC	AGGACGCTCC	CCTCAGGTGC	TGGAGGAACA	300
TCCCAGTTCA	CAAAGCCCCC	ATCTCTTCCT	CTGGAGCCAG	AGCCTGCGGT	GGAATCAAGT	360
CCAACTGAAA	CATCAGAACT	TCTCGAG				387

- (2) INFORMATION FOR SEQ ID NO:395:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 553 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - •
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:395:

GAATTCGGĊC	AAAGAGGCCT	ATCGAGAAGC	CTTGTTTATT	TAATGTGAGT	TTGTGCCTTT	60
TTGTCTCAAT	CTTCCAATAC	AGGTATATTG	AGAAAAAAG	CAGTCTAATA	AAATCCTAGA	120
CAGAACTTTC	TGGAGTCCAG	TTTGGTGATG	TCCATTTTCC	AGCTGTATGT	ATCCTCAAAC	180
TTGCACTGAT	AACCGCCATT	TTACCAGGGC	AGGATTAGGA	AGAGGTACAA	AGGTGTGTCT	240
GAAAATTTTT	GCACGTGGAT	TTCTGCATAT	AATAGTCCCG	TGTCAGTTTA	CTTATGCAAA	300
CATTGCACAT	CTGAATTGTA	ATTCGGCCGT	TTCCTACTGA	CAGGATGTCC	TTTTGCTTTT	360
GTCTGCCTCC	TCTTCACATC	TTCCTCTTTA	TCCACCCTGC	AGCCGGGGGG	CGGGGGAGAC	420
CGGATCCCAG	GCAGGACAGT	GGCTAGGCTG	CGTGTCCCCA	CCCCCGACCC	TCGTTTGACC	480
CCTGGGAGCC	GGGGCGAAGA	CAGCACAAGG	ACGGAGCCCT	CGGATCCCTC	ACGAGTGGGG	540
CAGAGGCTGC	GGG					553

(2) INFORMATION FOR SEQ ID NO:396:

SEQUENCE CHARACTERIS	CTICC.

- (A) LENGTH: 472 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:396:

GAATTCGGCC AAAGAGGCCT ACAAGGTTAC TTGACCAAGA TGGTGACATT GTAAGATTTG	
AACAAAGGAA ATGTGACTTC AGAGTCATGG TTGTTAACTA TGCTATGAAG TAGGAAAACT	120
TTATGAGGTC TTTTTAACTC AAACAGTCGA GTTTTAAGTT GAGGGTTAGC AATGATGAAT	180
GAGTGGCCAA AAAATGTATT CATATTTTTA GTCTTTCTTA GAATTACTGG TAGTTGTGCA	240
CAACTAGAGG GTATTTATTT GTGTGTGTAT GTGTCGTGTG TGTACGAGTG CTGGAAATAC	300
TCTGCCAGTT TACAGTAGAG GCAGGCTTAC ATAATTCAGT CATGAAAGCT GAGGCTTATA	360
GTTTAGAGGG GATCGTCCTC TTCTTAATGA GTCTGTAAGT TACAAAAATA ACTTTTTTCT	420
TTATTTACTA ACTGGTTGGT TTTTAATATT AAAATATTAG GTGCTTCTCG AG	472

(2) INFORMATION FOR SEQ ID NO:397:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 548 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:397:

GAATTCGGCC AAAGAGGCCT	AGATTGGGGG	ACATTCTTCT	TTAGAAGGAA	AAGAGTCTAA	60
TTAGTGGATA TTAAGTAATT	AAATAATACA	TACTATCAAA	TATTATGAGA	GTCACATGAA	120
CCATGAAGTC TTCACTTAAT	TTAGGAGAAA	TGGGGAATAT	TTTCTATCAT	TCCTGATAAC	180
AGAACTAGAT ATTTCAAGAT	CATAGTCATG	GAATGTAATC	CATAATACCA	AACAGGGTGC	240
TTTACTTTGA AGCCATTGAC	CATTAAATTT	GATTGTTAGT	AGCACAGGCT	ACCAAAAAAT	300
AGCAAGGAAT ATGGTATCCA	CACAGATCTC	GGCTGGCCTC	AAGTAATCAA	AAGTGAGAAT	360
GAAACATACA TGACACAACT	GGGGACCTCT	GGGTTTCTGA	GACGTGGGCT	ACAAGATTAT	420
ATTAGGTAGA AAACTAAAGG	AAATGTATTC	CAAGCAAAAG	TGGCAAGGGA	ATTTCACAGA	480
ACTAATTTT TAAGGGAGGT	AATAAAAGCA	GCAGTTAAAA	TGCATGTCCA	TGTATCAGAT	540
TCCTGGAG					548

(2) INFORMATION FOR SEQ ID NO:398:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 462 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:398:

GAATTCGGCC AAAGAGGCCT	AGGCTAAATA	CCGGCACGAG	ACCGATTTTC	TGAAGACAGC	60
AGATTTATCA CTGTTAATCC	AGCGGAAAAA	AACACCTCTG	GAATGATAAG	CCGCCCTGCT	120
CCAGGGAGGA TGGAGTGGAT	CATCCCTCTG	ATTGTGGTAT	CAGCCTTGAC	CTTCGTGTGC	180
CTCATCCACT TCTCAAACTC	GGAGAACTGC	AAGGAGCTGC	AGCTGGAGAA	GCACAAGGGC	240
GAGATCCTGG GCGTGGTGGT	GGTGGAGTCG	GGCTGGGGCT	CCATCCTGCC	CACGGTGATC	300

16176530700330	
CTGGCCAACA TGATGAATGG CGGCCCGGCT GCCCGCTCGG GGAAGCTGAG CATCGGGGAC CAGATCATGT CCATCAATGG CACCAGCCTG GTGGGGCTGC CCCTCGCCAC CTGCCAAGGC ATCATCAAGG GCCTGAAGAA CCAGACACAG GTAAAGCTCG AG	360 420 462
(2) INFORMATION FOR SEQ ID NO:399:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 428 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:399:	
GAATTCGGCC AAAGAGGCCT AGGCCGGCA CACAGAAAAA TGCGAGGAAT AGAAATGCTT GCATACTCTT GATTTTTTTT TTTTTTTTTT	60 120 180 240 300 360 420 428
(2) INFORMATION FOR SEQ ID NO:400:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 269 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:400:	
GAATTCGGCC TTCATGGCCT AAGTTGAAAC TTACGAGTAA CATACCTGGT GTCTGATTGG TTGTCATACT TTTCATTTTC CCTCCTTTCA GATCCAATCC ATTCTACACA TTATACTGAT TTTTTCCTAG TGTACTGATT TCTGTTATGT CACTTTGCTG CTTAGGCTTC TTAATGCTTA CTGTATCAGG TGTAAACACC TTTTGCTTAC CTTTCCAGGC CTTTTTAGAG TCTTATATAG CTTACTCCCA TGCTCCAACT CCCCTCGAG	60 120 180 240 269
(2) INFORMATION FOR SEQ ID NO:401:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 236 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:401:	
GAATTCGGCC TTCATGGCCT AGGCACTTTG AAGAGATATA GAACTCCGTG TATCACATTT TCCATTTTTA TTTCAATTTT TAATTGCCCA GAGCCTAATT TCTGTGGGCC TCTGCTGATT TGCACATTTG AGATTCGTGT GTAAATATGC GTGTGGCATG TGTACACGCC TGGGCCTCCT TATCACAAAG TGTGCTCTCT CAGTGTTTAA ATACACACAA TCCACATCGA CTCGAG	60 120 180 236

- (2) INFORMATION FOR SEQ ID NO:402:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:402:

GAATTACCTT	ATACACATAG	CCTGAAGGTA	ATTTTATACA	ATATTTCCAA	TAGTTTTGTG	60
CTTCAAACAA	AGTTTGGGTA	CATTGAACCA	TCAGAAAGGA	AAGGTGTCAT	TGTCTCAGCC	120
ACCCATGTGG	ACAATCTCTG	GTTGTTTGGC	ATCACTGTTG	TTGCTGAGTC	TGAATGTGAG	180
GAACATGCCA	TTGGCATGTC	TTGCCCACAC	ACACACCATT	TTGTTATCTT	TTGTGGGTGT	240
GCTTATGTGG	GGGAATCTGG	GCGTGTGTGA	AAAAAATATA	TTGCAGCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:403:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 345 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:403:

GAATTCGGCC	TTCATGGCCT	ACTTGGGGTA	CTGAGATACA	TGGGGCCGAA	AAGGGGTAAT	60
ATGGCCATCT	TTTATCAGAA	AAAGTGACAA	AACGGGAATT	TAAAAAATGA	ATTTTCCATC	120
TGACTTTATT	TCCAAATACA	CTTTCTTTTT	TAAAAAACCA	ATACACTTTC	TTTGAGGATG	180
ACAGTATTAG	GAAATCCAAT	TATACAAAAA	ATACTACATC	TAGTCTGGGG	TAGATATATT	240
TATTTTTGGT	AACATACATT	AAGTGGCACT	AATTACACAG	TAACTATAAG	GTAACTAACA	300
TGAAACCACA	GAACTGTAAC	TCTGCCACAG	CTGCATGAAC	TCGAG		345

- (2) INFORMATION FOR SEQ ID NO:404:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 252 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:404:

GAATTCGGCC	TTCATGGCCT	АЛАЛАЛАЛА	AAGCCATTAA	TCTAATTAAT	TGTTTAATCC	60
TGCTTACAAG	ATTATCTTGA	AAAAATGTGC	TGGGGAGTAT	GGTATAATGA	ATTACGGGTC	120
CAAGAATTTG	GGTTCAGATA	CCACCTTCAG	TCTTTACTAA	GCTGCGTGAC	TTTAGCAAAG	180
TGCTTAGTCT	CTCTAAGCTT	CGGTTTCCTA	ATCTATGAGG	AGGGCCTAAG	ATATCACCAC	240
CCATCACTCG	AG					252

- (2) INFORMATION FOR SEQ ID NO:405:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 305 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:405:

GAATTCGGCC	TTCATGGCCT	AAGAATACGA	AATTTGAGAG	GATGAATTTG	ACCTTTAATA	60
TTGTTGGACT	TTGTATTGGA	TATCTTTCCT	CCATCACTTC	AAAATCGTCT	TGCTTGGCCT	120
CTTATTGCAA	CCACAGCTGC	AGTAGACAGT	TCCATACAAG	CTTCCAAGAA	CTTCATGGGT	180
ACATCTGGAG	AGCACCTCAC	CTGGGGCCAC	ATTCTCTACC	TTTCCTGTCT	TACTCTTCCT	240
CCTCTGGGCT	TCTTTCTGGT	GCATGGGGGT	GGGGGGAGAT	ATTAAGTATT	CCCCAACAGC	300
TCGAG						305

- (2) INFORMATION FOR SEQ ID NO:406:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 250 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:406:

GAATTCGGCC	TTCATGGCCT	ACACAGCAAC	AACCAACATA	GCTAATACAG	AAAGCAGTCA	60
GCAGACTCTA	CAGAATTCCC	AGTTTCTTTT	AACAAGGTTG	AATGATCCTA	AAATGTCTGA	120
AACGGAGCGC	CAGTCCATGG	AAAGCGAGCG	TGCAGACCGC	AGCCTGTTTG	TCCAAGAGCT	180
CCTTCTGTCC	ACTTTAGTGC	GTGAAGAGAG	CTCATCCTCA	GATGAGGATG	ATCGGGGGGA	240
GGTTCTCGAG			ŕ			250

- (2) INFORMATION FOR SEQ ID NO:407:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 481 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:407:

GAATTCGGCC	TTCATGGCCT	AAAAGAAACT	AGGTGTGATT	GGAAGGAAGA	ATCATGAAAG	60
ATCAGGGTAG	ATACTGGTGG	GGCAGCTATT	AAAGGAGTTT	GAGCAGGGGC	ATGACATCTT	120
CACATTGAAA	GCAATATGGG	AGTCGAATTA	AATTTAGTAC	CCAGTTGAGA	TAAAAGTCCA	180
TTGCCATATT	CACAGTGAGG	TGGGACAAAA	GCAGAGTCAG	AGAGATTAAG	AGGCTGGGAA	240
AGATTGAAGT	GATTTTTAGG	AATCAGAATC	CACATCAGTT	GATGACAAGT	ACAGAAGGGC	300
ACAATAGCAA	GAAGAAGAAG	TAAATGATAA	TTCCTAGATG	CCATTAGTCA	CAATCAAGTA	360
CGGAAGAGAC	ATTATTGACT	GAGGTTGAAT	CAGGGCAGAG	AAGATAATAT	ACCTGATTTT	420
GGAAGTGTTG	CATGTAAGGG	GGCTTCGATT	TCAGCTACTT	ACATACTTGG	GAAGTCTCGA	480
G						481

- (2) INFORMATION FOR SEQ ID NO:408:
 - (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 308 base pairs

- PCT/US98/06956 (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:408: GAATTCGGCT TCATGGCCTA CCCGGCAATT GGCTGATCCG CAGAAACATT TCTGGGCTTC 60 TTTTCCATAT CTCTGGAACT GATAGTCAAA CGTTAACTCT GAGCCTGAAG GAACCAGTTT GGTGGTAAAA AACCCAACCC TCAGTTGTCC GTTCACAGTC CATTTTTGGG TTTCACAATT 180 TGGTTCACAG CTGTGATTCA TGAAACGAGA GCAATTTCCT TTTTGAGTGG CATCTATTAT 240 CTCATCATTC TTCAGGGCCA TGAAATAGTA ATGGATGTTT TTGTTTCGTG CATACTCCTT 300 CACTCGAG 308 (2) INFORMATION FOR SEQ ID NO:409: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:409: GAATTCGGCC TTCATGGCCT ACAATGAGGA TAATACAAAA GAGCAATCTG CCCCACTGTG 60 AGCCTGAGCT TCCCATACTG ACTTCTCTCT CTCCAGAGGG ATCCACTCCT ACCAGTCTGG 120 AAAGCACTGG GCATACAAGC GCACAAATGC GTGGCACATA CTACAAATCC TTCTAAAGCC 180 ACTGCTGTAC ACCTGCCTCA CTTAACCATG CAGCCTCAAG GCTGTCTCAT GTCATTCTTT 240 CCTACAGCTG CAGAGTTTTC AACATATGGA CAGGTGTGCC AGGATTTATT TGACTAGTCT 300 CTTACTGATC TAGCTCACCT CCTAAATACA ACTCGAG 337 (2) INFORMATION FOR SEQ ID NO:410: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:410:

GAATTCGGCC	TTCATGGCCT	AAAATGTGGG	GATTGGGAAC	CACTAGTTCT	TTCAGATGGT	60
ATTCTTCAGA	CTATAGAAGG	AGCTTCCAGT	TGAATTCACC	AGTGGACAAA	ATGAGGAAAA	120
CAGGTGAACA	AGCTTTTTCT	GTATTTACAT	ACAAAGTCAG	ATCAGTTATG	GGACAATAGT	180
ATTGAATAGA	TTTCAGCTTT	ATGCTGGAGT	AACTGGCATG	TGAGCAAACT	GTGTTGGCGT	240
GGGGGTGGAG	GGGTGAGGTG	GGCGCTAAGC	CTTTTTTTAA	GATTTTTCAG	GTACCCCTCA	300
CTAAAGGCAC	TCGAG					315

- (2) INFORMATION FOR SEQ ID NO:411:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 277 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D)	TOPOLOGY:	linea:	r
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- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:411:

GAATTCGGCC	TTCATGGCCT	ACCTGAACCC	CTTACTTCGA	AGGATCATAA	GATTCACAGG	60
GGTGTTTGCA	TTTGGACTTT	TTGCTACTGA	CATTTTTGTA	AACGCCGGAC	AAGTGGTCAC	120
TGGGCACTTA	ACGCCATACT	TCCTGACTGT	GTGCAAGCCA	AACTACACCA	GTGCAGACTG	180
CCAAGCGCAC	CACCAGTTTA	TAAACAATGG	GAACATTTGT	ACTGGGGACC	TGGAAGTGAT	240
AGAAAAGGCT	CGGAGATCCT	TTCCCTCCAA	ACTCGAG	•		277

- (2) INFORMATION FOR SEQ ID NO:412:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 316 base pairs (B' TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:412:

GAATTCGGCC	TCATGGCCTA	GTGGTAGGGC	TGAATTCGCA	CTATAGGGTT	AGATTTTCTA	60
CTGTAGGGTT	AGATTTTTTT	AATGGTGTGT	ATATAATAAT	ATAATATTAA	TAATAATCGG	120
AGAGGGTCAA	AGAGGAGGGA	AACTGGGTAA	CCCAAAAACA	TAAGGTCGAG	GTCCCTGTTC	180
TTCACCGGAA	AGAGGGTCAA	GGACCAAAGC	CATAGATTTG	ACTGGTAGTT	TAGTTTAGTC	240
CTGTCTACGA	AGAAGAAGAG	CGGTTGTTTG	TTTTAACAGA	TTCAAGAGCA	GGAAGCACTC	300
ATTTAGATAA	CTCGAG					316

- (2) INFORMATION FOR SEQ ID NO:413:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 249 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:413:

GAATTCTAGA CCTGCCTCGA GTCAGGCTTT TAAAAACAAT CTCATCTGTC CCTCTAAAA	A 60
TTAGCTTCCT TTAGAACCTC TTCTCCTTGG CAATATATTA GTGATACTAT TGTTATCTT	C 120
ACACTAAAGA TTCAAAACTT TAGTTTTTGT TTTAGGAAAG TTTTTTATTT TTACATTTC	T 180
TTCATCCTTC ATAATTACCC AGTCATCATG AACTTTGTAG TTATCTATTT CTTCATAGG	A 240
ATCCTCGAG	249

- (2) INFORMATION FOR SEQ ID NO:414:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:414:

GAATTGATAC	TAGGGACCGA	AGGGAACTAA	GAGACTCCAG	AGACATGCGG	GACTCAAGGG	60
AGATGAGAGA	TTATAGCAGA	GATACCAAAG	AGAGCCGTGA	TCCCAGAGAT	TCTCGGTCCA	120
CTCGTGATGC	CCATGACTAC	AGGGACCGTG	AAGGTCGAGA	TACTCATCGA	AAGGAGGATA	180
CATATCCAGA	AGAATCCCGG	AGTTATGGCC	GAAACCATTT	GAGAGAAGAA	AGTTCTCGTA	240
CGGAAATAAG	GAATGAGTCC	AGAAATGAGT	CTCGAAGTGA	AATTAGAAAT	GACCGAATGG	300
GCCGAAGTAG	GGGGAGGGTT	CCTGAGTTAC	CTGAAAAGGG	TAGGCTCGAG		350

- (2) INFORMATION FOR SEQ ID NO:415:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 529 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:415:

GAATTCGGCC TTCATGGCGT	TAAAACTGTG	CCTAACAGAG	GTGTCCTCTG	ACTTTTCTTC	60
TGCAAGCTCC ATGTTTTCAC	ATCTTCCCTT	TGACTGTGTC	CTGCTGCTGC	TGCTGCTACT	120
ACTTACAAGG TCCTCAGAAG	TGGAATACAG	AGCGGAGGTC	GGTCAGAATG	CCTATCTGCC	180
CTGCTTCTAC ACCCCAGCCG	CCCCAGGGAA	CCTCGTGCCC	GTCTGCTGGG	GCAAAGGAGC	240
CTGTCCTGTG TTTGAATGTG	GCAACGTGGT	GCTCAGGACT	GATGAAAGGG	ATGTGAATTA	300
TTGGACATCC AGATACTGGC	TAAATGGGGA	TTTCCGCAAA	GGAGATGTGT	CCCTGACCAT	360
AGAGAATGTG ACTCTAGCAG.	ACAGTGGGAT	CTACTGCTGC	CGGATCCAAA	TCCCAGGCAT	420
AATGAATGAT GAAAAATTTA	ACCTGAAGTT	GGTCATCAAA	CCAGCCAAGG	TCACCCCTGC	480
ACCGACTCTG CAGAGAGACT	TCACTGCAGC	CTTTCCAAGG	ATGCTCGAG		529

- (2) INFORMATION FOR SEQ ID NO:416:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 363 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:416:

GAATTCGGCC	TTCATGGCCT	ACTGAGCCTA	GTAATTCAAG	GCTGCAGTGA	GCTGCGATCA	60
CATCACTGCA	TTCCCGCCTG	GGCAACAGAA	GTAGACTCCA	TCTCTAAAAA	GAAGGAAAGA	120
AAAAAAGGAA	GAAATATACA	GTAATTTTAA	ACTGGGAGAT	GAAATGCTAA	TTTCTAGAAG	180
TCCATTTGGT	TTTGAAGGGT	CTCATGTCAA	ААААААААА	AAGTAAGTAA	AATAAGACCC	240
ATCCTACTGT	TTTATATACT	AAAATAGTAA	GTTAATTAAA	TGAAAATGAA	GTACATTTGG	300
GCTTTCATTT	ACCAATCCTG	GAATGTTGAA	AAGTTGCCCA	AAAGACATTT	AGCAAGACTC	360
GAG						363

- (2) INFORMATION FOR SEQ ID NO:417:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 129 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear

	PC1/US98/06956	
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:417:		
GAATTCGGCC TTCATGGCCT ACCTGAAAGC CCATCTCCTC CAACTTGCA GCTCGTAGTG CCGGCTGTGG GTCTGCTCGC GGAGGTCTTC CATGTTCAC TGCCTCGAG		60 120 129
(2) INFORMATION FOR SEQ ID NO:418:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 284 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:418:	•	
GAATTCGGCC TTCATGGCCT AGGAGGTGGG TATAGGGAAC ACTTGGGGA ATCTGAATAT AGACTGTGCA TTGTATCATT TAGTATAAAT GTTGACTTG TGTTGAAGGC ACTGTGGTTA CACAAGAGAA CGTCTGTCTT CCTAAGTGA GTTTGCAGGG GCATCCTGTC TGCAATTACT CTCAAATAGA TCAAAATAA GTGTGCATGA TGGAGACAGG GAAGAGAAA GGAAAGGGCT CGAG	C CTGATTTTGT T GCATGCCAAG	60 120 180 240 284
(2) INFORMATION FOR SEQ ID NO:419:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:419:		
GCCAGCACAT TGTGGAACAG AAAAATGGCA AAGAAAGAGT GCCCATCCT TGCAGAAGGA AGCAGAGCTG AGGCTGGTAA AGTTCCTGCC TGAGATTTT GGGATCTAGT GAAGCAGTTC CAGAACGTCC AGCAAGTTGA ATACAGCTC TCCTCAGCAA GCACAGCTCA GATGGGTTGA GGCAGCTGCT TCACAACAG TTCTGTCCAC ATGGAACAAA CTGAGGAGAT CGCTTGAGAC GAACAGCTC	G GCCTTGCAAA C ATCAGAGGCT G ATCACAGTCT	120 180 240 292
(2) INFORMATION FOR SEQ ID NO:420:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:420:		

60 120

GGAACCAACA GAACAACCTG TGAGGAAGAA CAAAATGGCC TCTAATATCT TTGGGACACC TGAAGAAAAT CAAGCTTCTT GGGCCAAGTC AGCAGGTGCC AAGTCTAGTG GTGGCAGGGA

2 27 027 37 023 0	
AGACTTGGAG TCATCTGGAC TGCAGAGAAG GAACTCCTCT GAAGCAAGCT CCGGAGACTT CTTAGATCTG AAGGGAGAAG GTGATATTCA TGAAAATGTG GACACAGACT TGCCAGGCAG CCTGGGGCAG AGTGAAGAGA AGCCCGTGCC TGCTGCGCCT GTGCCCAGCC CGGTGGCGCT CGAG	180 240 300 304
(2) INFORMATION FOR SEQ ID NO:421:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:421:	
TAATTTAGAT TATACAGAAC TTGGCCTGCA GAAACTGAAG GAGTCTGGAA AGCAGCACGG CTTTGCCTCT TTCTCTGATT ATTATTATAA GTGGTCCTCG GCGGATTCCT GTAACATGAG TGGATTGATT ACCATCGTGG TACTCCTTGG GATCGCCTTT GTAGTCTATA AGCTGTTCCT GAGTGACGGG CAGTATTCTC CTCCACCGTA CTCTGAGTAT CCTCCATTTT CCCACCGTTA CCAGAGACAA CTCGAG	60 120 180 240 256
(2) INFORMATION FOR SEQ ID NO:422:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 216 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:422:	
GCGATTGAAA TGGATCCTCC AGCTCTTCCA CCAAAGCCAC CTAAGCCAAT GACTTCAGCA GTTCCAAATG GAATGAAGAA CAGTTCTGTT TCTCTTCAGG ATGCAGAATG GTACTGGGGG GATATTTCAA GGGAGGAGT AAATGACAAA TTGCGGGATA TGCCAGATGG GACCTTCTTG GTCCGAGATG CCTCAACAAA AATGCAGAGA CTCGAG	60 120 180 216
(2) INFORMATION FOR SEQ ID NO:423:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 389 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:423:	
GAATTCGGCC TTCATGGCCT AAAATTAATG AGTTGAACCT GTGACCACTG CATTCAAGAA GAGTCACCCA AGAGAGAGGGT GGGAGGTCCA ACAGAGCTCC TTTACTTTCT CCCACAGAGG AAAAGGTGGA ATTCTGGGCT GGCTTTCCCT CACCAGAGGG TATCCCCAAAT CTATGACAAA AGAAAAATGC CAGTCTCTTT TGGAAAGTAG GGAATGCCCT AGTGATGCTG TATGAAGAAG CAAGCCTCCA TCTTCCCCGG GGAAATTTGA AACCAAGATG GGGTCCTGTC AATGACCCTC TAGCATTTAT TGAGTGCCTA TTAGACAGGT GGCCTTGGGC TTTGAAATGC AATATCTTAT TTAACTTAAT TCTGAGAACG TATCTCGAG	60 120 180 240 300 360 389

- (2) INFORMATION FOR SEQ ID NO:424:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 411 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:424:

GCCCGTGCTG ATGTCTTTGA	AAGAAGGCTA	TAAGAAGTCC	TCAAAAATGG	TATTTAAGGC	60
TCCCATCAAA GAAAAGAAGA	GTGTTGTGGT	CAACGGAATA	GATTTATTAG	AAAATGTCCC	120
ACCCAGGACA GAGAATGAGC	TCCTTCGAAT	GTTCTTCCGG	CAGCAGGATG	AGATTCGACG	180
GTTGAAAGAG GAGCTGGCCC	AGAAGGACAT	CCGCATTCGG	CAGCTCCAGC	TGGAACTGAA	240
AAACTTGCGC AACAGCCCCA	AGAACTGTTA	GCTCCCCAGC	TGGGCTGTTT	TCTAAGCCGA	300
TCTCTCCGTC GTTTCTACTC	ATCCCTTAAC	TTCTCCCTTA	CCAGTGACCC	CAGAGACAGA	360
GCCAGGACAG GAGTGGGGGC	CAGCCTGAGG	ACCCCCCCCT	ACCACCTCGA	G	411

- (2) INFORMATION FOR SEQ ID NO:425:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 691 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:425:

GGTACCAACA	GGACACCCCG	GTGGCCCCCC	GCTTTGACGT	CAATGCCCCG	GACCTCTACA	60
TTCCAGCAAT	GGCTTTCATC	ACCTACGTTT	TGGTGGCTGG	TCTTGCGCTG	GGGACCCAGG	120
ATAGGTTCTC	CCCAGACCTC	CTGGGGCTGC	AAGCGAGCTC	AGCCCTGGCC	TGGCTGACCC	180
TGGAGGTGCT	GGCCATCCTG	CTCAGCCTCT	ATCTGGTCAC	TGTCAACACC	GACCTCACCA	240
CCATCGACCT	GGTGGCCTTC	TTGGGCTACA	AATATGTCGG	GATGATTGGC	GGGGTCCTCA	300
TGGGCCTGCT	CTTCGGGAAG	ATTGGCTACT	ACCTGGTGCT	GGGCTGGTGC	TGCGTGGCCA	360
TCTTTGTGTT	CATGATCCGG	ACGCTGCGGC	TGAAGATCTT	GGCAGACGCA	GCAGCTGAGG	420
GGGTCCCGGT	GCGTGGGGCC	CGGAACCAGC	TGCGCATGTA	CCTGACCATG	GCGGTGGCGG	480
CGGCGCAGCC	TATGCTCATG	TACTGGCTCA	CCTTCCACCT	GGTGCGGTGA	GCGCGCCCGC	540
TGAACCTCCC	GCTGCTGCTG	CTGCTGCTGG	GGGCCACTGT	GGCCGCCGAA	CTNATCTCCT	600
GCCTGCAGGC	CCCAAGGTCC	ACCCTGTCTG	GCCACAGGCA	CCGCCTCCAT	CCCATGTCCC	660
GCCCAGCCCC	GCCCCCAACC	CAAGGCTCGA	G			691

- (2) INFORMATION FOR SEQ ID NO:426:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:426:

GCAGACCATA TATCG	AAAGT TCTTTACTT	G TATCAAGGTG	AGAAAAAATT	AGAAGAGATA	60
TTACCTCTGG GACCA	AACAA AGCTCTTTT	T TATAAAGGAA	TGGCATCATA	TCTTTTACCA	120

GGACAAAAAT CTCCATGGTT	TTTCCAAAAA	CCCAAAGGTG	TAATAACTTT	GGACAAACAA	180
GTAATATCCA CGAGTTCAGA	CGCCGAATCC	AGGGAAGAAG	TTCCCATGTG	TTCAGATGCT	240
GAATCCAGGC AAGAAGTTCC	CATGTGTACA	GGCCCTGAAT	CCAGGCGAGA	AGTTCCCGTG	300
TATACAGATT CTGAACTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:427:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 190 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:427:

GAATTCGGCC	TTCATGGCCT	ATATACTATC	AAATGAAAAT	AGCAAGATGC	TACCATTTAT	60
ATTAAAAAGA	GGACAAAATA	TTAATATATT	CATGGTTGCT	TGTCTATGTG	GAATATTTCT	120
GGATATATAC	ATAAGAAGTT	ACATTGGTTA	CCTATGGGCA	GGTTACTACT	GGGTGGCAGG	180
TGGGCTCGAG						190

- (2) INFORMATION FOR SEQ ID NO:428:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 670 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:428:

GAATTCGGCC	TTCATGGCCT	AGGCAAAGCT	GGCCCTGACG	CCTGGGTTTC	TTGGCCCCAG	60
CTGCCCAGCA	GGTGCCTCGA	TTCCCTGCCC	TTGTGACCTC	CCAGGAAACA	GAACTGATCT	120
GGGACACTAT	GTCACCTCTC	CTCTCATCTG	GGGTCAGTCA	GGGTTCGGGG	GCTGCAGCAG	180
CCAAGCGCAT	GAGAGGTGTT	TCCTTGGCCT	TCCAGAAGGC	CCACTGTGGA	GCCÄGCCTCC	240
CTATGGGAGG	CAGAGCGGCA	AGGACAGGGC	TTTGGAATCA	GCCAGGTCGG	CTCCTGGGCT	300
GTGGCCGTGG	AGAAACACTG	CCCCCAGGAT	GACACAGGCA	AGAGCCCCTG	AGGCATGGGA	360
GGCCCAGGGA	AGACCATGGG	CTGTAGGGGA	GAGTGTGGCA	GGTGACCCAA	AGGCCCAAAG	420
AGGGCCGTGG	GGCCTGAGGA	GGTCATAATC	TCTTCTGAGT	GGGGGCAGGT	CGATTCTTGC	480
ACAAGGTGGG	CTCTTCACTG	AGCCATAAGG	GACAGGGAGG	TATGGGAGAG	CGCTGGGGGC	540
CCATCCCCCT	GTCCACCCAG	TGTCCACTGG	CCTGTCCTTC	AGGGAGCAGA	GCAGAGCAGG	600
TGGTGGACGG	GCCCAGTGCT	GGGTGTTTTC	ACCACCATCC	CCCCATCCCC	CATCTAAGTC	660
GCTCCTCGAG						670

- (2) INFORMATION FOR SEQ ID NO:429:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 278 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:429:

GTAAGGATTG	GCGATTCCTA	CAGCGAATGA	TCACCGCTCC	CTGCATCCTC	TTCCTGTTTT	60
ATGGCTGGCC	TGGTTTGTTC	CTGGAGTCCG	CACGGTGGCT	GATAGTGAAG	CGGCAGATTG	120
AGGAGGCTCA	GTCTGTGCTG	AGGATCCTGG	CTGAGCGAAA	CCGGCCCCAT	GGGCAGATGC	180
TGGGGGAGGA	GGCCCAGGAG	GCCCTGCAGG	ACCTGGAGAA	TACCTGCCCT	CTCCCTGCAA	240
CATCCTCCTT	TTCCTTTGCT	TCCCTCCCCA	ACCTCGAG			278

- (2) INFORMATION FOR SEQ ID NO:430:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 299 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:430:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACCTGCC	TCTGTTCATC	TTTAAATGCT	60
GTTTTCTCTG	TTCAAAATGC	CCTTTCCTAC	CTTATCTACT	TGTGCCACTG	CATATTCCTA	120
AGGCTCAACT	CAGGGTATCT	TCCCTCGGAA	ACCTTGTCTG	ATCATCCTGG	CCCCTCTGGC	180
GGACAGTAAT	TTCTGCCTCT	GTGCTCCCAT	CACCTGAGCA	CACCTGTATG	GTGCTGCTGA	240
GCCCGCTGAA	TTGGCATTAT	GGGCACGTGC	GTCTCCTCCA	TTCCATGGAG	CTCCTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:431:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:431:

GTTACATGAC	ACTGTTAATG	ATTGCATTTG	GCTTGCTGTG	GGGGCATCTC	TTGCGGATCA	60
AACCCACGCA	GAGCGTCTTC	ATTTCCACGT	GTCTGTCCTT	GTCAAGCACA	CCCCTCGTGT	120
CCAGGTTCCT	CATGGGCAGT	GCTCGGGGTG	ACAAAGAAGG	CGACATTGAC	TACAGCACCG	180
TGCTCCTCGG	CATGCTGGTG	ACGCAGGACG	TGCAGCTCGG	GCTCTTCATG	GCCGTCATGC	240
CGACTCTCAT	ACAGGCGGGC	GCCAGTGCAT	CTTCTAGCAT	TGTCGTGGAA	GTTCTCCGAA	300
TCCTGGTTTT	GATTGGTCAG	ATTCTTTTTT	CACTAGCGGC	GGCTCTCGAG		350

- (2) INFORMATION FOR SEQ ID NO:432:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 305 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:432:

GAATTCGGCC	TTCATGGCCT	ACCAGGTTCT	TGCTGCCCTG	CGACTCCAGT	ATCTGCAGGG	60
GGATTATACT	CTGCACGCTG	CCATCCCACC	TCTCGAAGAG	GTTTATTCCC	TGCAGAGACT	120
CAAGGCCCGC	ATCAGCCAGT	CAACCAAAAC	CTTCACCCCT	TGTGAACGGC	TGGAGAAGAG	180
GCGGACGAGC	TTCCTAGAGG	GGACCCTGAG	GCGGAGCTTC	CGGACAGGAT	CCGTGGTCCG	240

TCGAG

GCAGAAGGTC GAGGAGGAGC AGATGCTGGA CATGTGGATT AAGGAAGAAG TCTCCTCTGC

(2) INFORMATION FOR SEQ ID NO:433:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 273 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:433:	
GAATTCGGCC TCATGGCCTA CTCCTCAGCC CCTCATCTTG CCTCCACCCA GCTGCTCCAT TTTTGCCACA TCGTGGCCCG CAGCCCCAGA GTCACTGTC ATGTCACCAT CCTCCTCC CTTTGGAATC CTCTCCGCAC ACTGTGGCCC TTGTCTCAGG GCCCACAAGC TGAACTGTGG CATAGCTCTC TCTTCTTCC CAAGAAGACT CAGCAGCCTA CATTCCCATT CCTGGTATGT GCCATTGGGT TGGATGTCCC CACTTATCTC GAG	180
(2) INFORMATION FOR SEQ ID NO:434:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 324 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:434:	
CGAGTGAGCG GGCGGACAG TGCTTGTGAA ACTGAACACA ACAAAAGTAT GGATATGGGA AACCAACATC CTTCTATTAG TAGGCTTCAG GAAATCCAAA AGGAAGTAAA AAGTGTAGAA CAGCAAGTTA TCGGCTTCAG TGGTCTGTCA GATGACAAGA ATTACAAGAA ACTGGAGAGG ATTCTAACAA AACAGCTTTT TGAAATAGAC TCTGTAGATA CTGAAGGAAA AGGAGATATT CAGCAAGCTA GGAAGCGGC AGCACAGGAG ACAGAACGTC TTCTCAAAGA GTTGGAGCAG AATGCAAAACT ACCCACACCT CGAG	60 120 180 240 300 324
(2) INFORMATION FOR SEQ ID NO:435:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 548 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:435:	
GAATTCGGCC TTCATGGCCT AAATGATCAA ATTTTGGCTT ACATATTTTG CAACAGTGGT ATAACACAAA GAAGTAGCA AATATGGCAG AGGTGTGGCT GCTTTGGCGT CTACTTTTGA CCAATAGTGGT GGCCCAATAGTGGT GGCCCAAAAAG GTCAGCCAGC TGATGGGTTG GACCAAGAAA GACAGAGTGA TAAGAATGAG TGAACACATG TTCTATCATT TTGTATTAAA TGCACCAAAA AACTATTCTG TTATTGTGAT GCTTACTGCT GCCCCACG CGTTCAGTTC ATGTGTCATG TGCACAAAAA GACTATTCTG CTGCTGAAGA ATTTCAGATC TTGGACCAAAA CCTATCTCTG CTGCTGAAGA ATTTCAGATC TTGGCACAAAA CCTATCAACG CCCTGGTGCA TTCACCACAA	60 120 180 240 300 360 420

AGGTATTTTT TGCAATGGTG GATTATGATG AAAGCCCTGA GGTCTTTGAA GCGCTCCAGG TAACGTCAGT TCCGAGTTTC TTCCACTTTT CTGCCCAATG GAAATTTACA ACAGATGACA GTCTCGAG	480 540 548
(2) INFORMATION FOR SEQ ID NO:436:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 308 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:436:	
GAATTCGGCC TTCAT.GCCT AAAATGAAAT TCAGACAAAA TCACTGGCAC CAAAAATGGT TTATTCTGAG CTGTCTTCAC TTTGACTATT TGGGGGGCTT CTCTCAAGTA CAGATGTGGG TTGGGGTCCC CTGGAGCAGG CAGGATTGGC AGTAAGAGAT ATTGGCCACT CAAGTCTACT GTGTGTGTGT GCCTCTGGAA GAGTGAAGAA TGGACTTCAA AAGTAACATC AAAAATCTAA CTGCCACCAT CCTGGAGACA TTTTGCAGGG CTTTCCTTTC	60 120 180 240 300 308
(2) INFORMATION FOR SEQ ID NO:437:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 420 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:437:	
GAACAGAAGA GATCCCCTCG GCCCCACGC CATATGACCA AAGTCACACC AGGTTCAGAG CTGCCCACTC CCAATGGAAC CACCTTATCA TCTAACCTCA CTGGTGGCAT GCCCTTCATT GATCTGCCCA CTCCCATCTC CTCTGCAAGT TCAGAAGCTG CCTCAGCAGT GGTCAGTCCC TCTACAGACAC GTGGCCTGCA ATTCTCCTCC CAAACCACTT CCAAAGCAGA CCTTACTGAT CTAGAGCAAC CTGGCTCTCC AGGGTACAGC ACAGCTACAG AGCCTGGAAG CAGTGAGCTA GGTGTTCCCG AGCAGCCTGA CCTCCAGGAAA GGCACCATC TGGAAAAGTC CCAGTCAGCA TCTGTGGAGT CCATCCCTGA AGTCTTAGAG GAGTGCACT CCCCTGCCGA CCAACTCGAG	60 120 180 240 300 360 420
(2) INFORMATION FOR SEQ ID NO:438:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 279 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:438:	
GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCT TCTCACTGCA CCTGGATGGC AACGTGCTGG ACCACTTCTC GGAGCTGCGC AGCGTCGAGG GGCTCTGTG	60 120
CTGCGTGTGG TGGAAGAGCC GTACACGGTG CGTGAGGCCC GCATCCACGT GCGCCATGTC	180

CGAGACCTGC TCAAGAGCCT GGACCCATCC GATGCCTTCA ACGGGGTTGA CTGCAACTCC

180

TTGTCCTTCC TO	BAGTGTCTT CACCGACGGC GACCTCGAG	279
(2) INFORMATI	ION FOR SEQ ID NO:439:	
(i) SE	QUENCE CHARACTERISTICS: (A) LENGTH: 351 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) M	OLECULE TYPE: cDNA	
(xi) S	EQUENCE DESCRIPTION: SEQ ID NO:439:	
TATAACCITT AI AATATTCTCC AI TACATGTTAA TO TGCTTATATT TA	PACCACAGT AAGCTGTTGC ATCATTCAAA TGACTCTGCA TCCTATATTG PTATTCTCT AATATCTTTG GGGGTACCCA GGATTACAGG GTTCTGGGCA SCTTTTGCC AGGACTTTTC TTTTTATTCA TTGTCGTGAC CCATTGTCTT AAAGTTTTT GCTCTTGATA TCATTGGTTC TTTCCTAAGT CACTTTTTCT	60 120 180 240 300 351
(2) INFORMATI	ION FOR SEQ ID NO:440:	
(i) SE	QUENCE CHARACTERISTICS: (A) LENGTH: 412 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) M	OLECULE TYPE: cDNA	
(xi) S	SEQUENCE DESCRIPTION: SEQ ID NO:440:	
TTTCACAGTT C. TTTCTTAAGC C. CATATCTCCT T. GTTGTGGAAG A. GAATGTGATT T.		60 120 180 240 300 360 412
(2) INFORMAT	ION FOR SEQ ID NO:441:	
(i) SE	EQUENCE CHARACTERISTICS: (A) LENGTH: 292 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) M	MOLECULE TYPE: cDNA	
(xí) s	SEQUENCE DESCRIPTION: SEQ ID NO:441:	
GAAGATCGTG T GGATACGCTG G GAAGGAGAAG C	TCATGCCTA GCCAGGAGGA GGAGGACCCT ATGAACAAAC TCAAGGGCCA CCTGCCGCA TCTGCAAGGG CGACCACTGG ACCACCGCT GCCCCTACAA GGCCCATGC AGAAGGAGCT GGCCGAGCAG CTGGGCCTGT CTACTGGCGA TGCCGGGAG AGCTAGAGCC GGTGCAGGCC ACGCAGAACA AGACAGGGAA CGAGCCTGC GCGACGGGGC CAGCCGCCG GGGGAACTCG AG	60 120 180 240 292

(2) INFORMATION FOR SEQ ID NO:442:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 222 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:442:	
CACTGAGCAG GACATCCGCG TCTGTGGCCC CTGGGACCCT GCCCCCGACA GCCAGGCCTG GGTTTGTCCT TTTAGGTAGA GTGCCTGGTC CAGGTCATTG GAGGAGAGTC CACATGGCCA	60 120 180 222
(2) INFORMATION FOR SEQ ID NO:443:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:443:	
TTTGACCAGT TCTCCATTTC TAATGGCCAA ACCACAAAAA GATGAGAAAA ATAATACCAA	60 120 180 205
(2) INFORMATION FOR SEQ ID NO:444: ,	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 178 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:444:	
GAATTCGGCC TTCATGGCCT ACCTGCCTCC CTCCTTGCTT CTTGCTCTGC TAACTCAACT CTGCCTTCCT CTTTTCATT CTTCTACTCT GCCCTATATG GAGGACAAAT GGACACCAGG GGTGCTAACC TTATTGGTGC CTGCCCCAGC CTACCCCAGG TGCAAGCAGA CTCTCGAG	60 120 178
(2) INFORMATION FOR SEQ ID NO:445:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 251 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear 	

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:445:

GAATTCGGCC	TTCATGGCCT	AGAAAGCCAC	AAACTTTTTA	GTTTTTAACT	TCAAAGGCTT	60
CTTTCTCTTT	AAAAAAATT	ATTTTTAATA	TAGAGTCAAA	AAATTGGATG	TATTATTTTG	120
AGCTTCTAAT	TGCTGCCACT	TGGAGATGTC	CAAGTAAGAA	GGCCTTCTTT	TTACATGGGA	180
TGAATTGTGC	ACTTCTACTG	ATGATGACTA	CAGCAGAAGT	GATGTTATAC	GTACAGGCAC	240
TTGAACTCGA	G					251

- (2) INFORMATION FOR SEQ ID NO:446:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 301 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:446:

GAATTCGGCC	TTCATGGCCT	AGGGCTTATA	TTTTAACTGA	ACTATTATTA	AATAAAAACA	60
AAATAAAATC	TTATCATATA	GGTGTAATCT	GTTCTAAGGA	AAAAATCCTT	CTATCAAGAC	120
TAAACGTCTA	ACTGAATACA	GAATGACATT	TCATGCCTTA	AGGTCTCTGT	CCATGTTGTT	180
CCTTCTTTCT	ACTGTCCTTT	ACTGTATTAG	TTCAAAACAT	TCTAATTCAC	TCTCCAAAAC	240
CCAATTCAAA	CATCACCATC	AGAAAGTCTT	CCATGATGGG	CCAGGTGTGG	CGGCCCTCGA	300
G						301

- (2) INFORMATION FOR SEQ ID NO:447:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 150 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:447:

GAATTCGGCC	TTCATGGCCT	AGCTGAAATG	CTTTCTATTG	GATACTATCT	GGGCATATTA	60
CTTCCTGTGG	TTCACTGTCT	GGGTGACAGG	ATTCATAGAA	GCCCAAACTT	TAGCACCACG	120
CAGCATACCC	TTGTAACAAA	GCCACTCGAG				150

- (2) INFORMATION FOR SEQ ID NO:448:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 226 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:448:

GAATTCGGCC TTCATC	GGCCT AATTTGATTT TAT	TAGGTTT AAATTGTATT	TCTTCAAATT 60
TCATAAACTA TAGCA	TTTAT CTCCATATTT TTA	АТАААЭКЭТА ЭТАААТА	AATCACTGTT 120
AATATCTCCA TTTAC	ACTTT TACAACTCCT GCT	ATTGCTG GATTTTCAT	CCTATGATAT 180

GTTAAACCAA TTTAAAATAC ATTTAAAGAA TCACAGCTGT CTCGAG 226 (2) INFORMATION FOR SEQ ID NO:449: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 453 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:449: GAATTCGGCC TTCATGGCCT AAGACTGGGG GCATGTACCC CACCTACTTT CTGCACCTGG ACCGTGAGGA TGGGAAGAAG GTAAGGTTGG TCTGGGCATG TTATCATCTA GGCTTTACAG 120 CCCTTTGAAA TCCTAGGGGC TGAAATGTGA CTGGAAGTCT CATATCTACC GCTGACCTCT 180 CAGTTCCTCA AAGAAACTGC CTTCGTGTCT GGTCTGTGCA CATCTTTGTG TTTTCCAGTG 240 CATTTGTGTG TGTGCACATA TGTGCGTTTG GGAGCTGACG CAACGGAGAG AGTCTGTGTG 300 AGTGGCTCTC ATGACTGTGT GCAGACCAGA GGCTGAGTCT GGAATATGAC CTCATTCCAC 360 TCCCCAAGGT GTTCCTCCTG GCGGGAAGGA AGAGAAAGAA GAGTAAAACT TCCAATTACC 420 TCATCTCTGT GGACCCCACA GACTTGTCTC GAG 453 (2) INFORMATION FOR SEQ ID NO:450: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:450: GAATTCGGCC TTCATGGCCT AAAAGCAAAT TAACTTGTTC TGAAAAGAAA GTATAGATTA ATTTGTTTT CTGTTTAAAT TTTATCTCCT TGGTAAAGAT TTTTTTTCC TGGGCAGAAA 120 ACTTGGCATT TTTAGGCGTA GATACCTTAC CTTACAATGC CAAAATGAAT TTAATTCCAG 180 TACTCAGGTT TTTCCCTTTA ACAGACTCTA TGTGTACCAG GCATTGAATT CTAGACCTGC 240 246 (2) INFORMATION FOR SEQ ID NO:451: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 414 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:451: GAATTCGGCC TTCATGGCCT AGTTTGGTGG GGTTGAAGTT GATGGCAAAC TCATGGGAGA CCTTCCAGTC TGGGGGTAAC TGGGCCCCGA ATCCCAGAGC TGGAAACATC TTATCACTGT CGTAGTCCTG AATGATCTGC CCAACAGCCC AGATGGCCGA CAGATATTCG TTGGTGCCCA 180 TAGGGTTGAT ATAGTGCAAA GAGGAAGGGT CGAGGGGATT CCCGTTGGAG GCTGTAAAGT 240 CTATTCCAAC GGTGAACATG AGCTGGCAGC CTCCCAGGAT GTAGTCAAGG AAGGAGTAGT 300 CTCGGTTTAT CTTGCAGGAT CGCAGGATGA TGATGCCCGA GTTTTTATAG TTCTTCTTCT 360

	TCCTCTGCTT CTTGGGGTTG ATGCACTCGA ACTCCAGCGG GACGCTGTCT CGAG	414
	(2) INFORMATION FOR SEQ ID NO:452:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 374 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:452:	
(V	GAATTCGGCC TTCATGGCCT ACACACTGAC TGACAGACCA CGGTATGCCT TGCACCACCC TGGCTGCTGG GGTCCAAAGA GGGATCTGGT AGACCTGGGC TGGAATCTCA GCTTCACCAT TTACCATCTG GGTGGCCAAT GGACTGTTAC TTGGCCTCTC TGACCCTCGG TTTTGCTCGT CTCTGAAACA GTAAGATACC TCCCTTTGGC TGTTGTGATG AGGATGAAGG TTAGCCTATG CCCAGTAGTA, TGCCTGTCCC TTCATCGATG CCTGCTCATC TCACTCTTGC TCTGGAAACA CCCCTAGTAG AGGCGCAGAG GGGCAGGGCC CACCCCACCC	60 120 180 240 300 360 374
	(2) INFORMATION FOR SEQ ID NO:453:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 288 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:453:	
	GCGTCCGTCC GCCGCCACCA CCCACTCCGG ACACAGAACA TCCAGTCATG GATAAAAATG AGCTGGTTCA GAAGGCCAAA CTGGCCGAGC AGGCTGAGCG ATATGATGAC ATGGCAGCCT GCATGAAGTC TGTAACTGAG CAAGGAGCTG AATTATCCAA TGAGGAGAG AATCTTCTCT CAGTTGCTTA TAAAAATGTT GTAGGAGCCC GTAGGTCATC TTGGAGGGTC GTCTCAAGTA TTGAACAAAAA GACGGAAGGT GCTGAGAAAA AACAGCAGAT GGCTCGAG	60 120 180 240 288
	(2) INFORMATION FOR SEQ ID NO:454:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 383 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:454:	
	GAATTCGGCC TTCATGGCCT AAGAAGTGTC TCCTGTATCC ACCTCTTCCT GGCCTCCCTT CCCCCACTTC CTGGTCCCTG TCCACTCCTC AGGTTGGTGC TCTCACTTCT TGAAAGCTCT AGGCACCCCC GCCTCCCGCC AGGCTCCCCG TTGGCTCCTG GCAGGCCAGC TGAGAATGAA CAGGAGATGA GCCCAGGCAG CCCAGGCTCCAG GATGTGGGGC CAGGCCCAGA GGGCTCAGCC TAGAGGCTTC CAATCTCAGA TTCTCCTGCC TGTGGTCATC TGTTTGTCCA TCACCCCAGG ACAGGGCAGA CAGAGGGGCA AAGCACTGGG GGCCCCAGAG CCTAGCTTCC CCTCAGCCTG GGGAAAACTC GAG	60 120 180 240 300 360 383

- (2) INFORMATION FOR SEQ ID NO:455:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 409 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:455:

AGAGCACGTC	AATGCCATGA	GGGGCCTGCA	AAGCAGCAAG	GAGCTCAAGG	CTGAGCTGGA	60
CGGGGAGAAG	GGCCGGGACT	CAGGGGAGGA	GGCCCATGAC	TATGAGGTGG	ACATCAATGG	120
TTTAGAGATC	CTTGAATGCA	AATACAGGGT	GGCAGTAACT	GAGGTGATTG	ATCTGAAAGC	180
TGAAATTAAG	GCCTTAAAGG	AGAAATATAA	TAAATCTGTA	GAAAACTACA	CTGATGAGAA	240
GGCCAAGTAT	GAGAGTAAAA	TCCAGATGTA	TGATGAGCAG	GTGACAAGCC	TTGAGAAGAC	300
CACCAAGGAG	AGTGGTGAGA	AGATGGCCCA	CATGGAGAAG	GAGTTGCAAA	AGATGACCAG	360
CATAGCCAAC	GAAAATCACA	GTACCCTTAA	TACGGCCCAG	AATCTCGAG		409

- (2) INFORMATION FOR SEQ ID NO:456:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 317 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:456:

GAATTCGGCC T	CATGGCCT .	AAATTTCATG	AAAAACAAAT	GGCTTAAACC	CAGGGAAGCA	60
AGGATTATAA T	rgatttttt	TGAGCAATGT	CTCTTTTGGT	TACAAAGTAA	AAGGTAAAAT	120
AAAAGTTTAA A	AGÇATTTGG	AAAGAATGTT	CTTTGGTTTT	TTCACTCAGT	AACCTAAAGT	180
TTAATGACCC T	TTACAGTGC	TGATAAACAC	TTAAATTTTT	GCAGTAGGCA	TTGCTAGTTC	240
AAATTGAAGG A	AGGTTGCCA	GGCTCATGCC	TATAGTCCCA	ACTACTTAGG	AGGCTAAGGC	300
AGGGGGACGC C	CTCGAG					317

- (2) INFORMATION FOR SEQ ID NO:457:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 510 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:457:

GAATTCGGCT	TCATGGCCTA	CTGCTCTTTG	GCTAAGGTGG	CAGTGTACCT	CTAGATCAAC	60
CTGGGCAACA	GTCACAAGGG	AGTGTGACTT	CTTGGCCATA	ATAAACTCAC	TTGATAGTGT	120
TTATGTTATT	AATCTGAATG	CAACAGAAGA	CAAAAGCACA	GGCATGCACA	CACACAGAAC	180
CCCAAACCAC	TAAAAACTAC	CTAAACACTG	ACTTAGTAAA	TAGTAAAAAG	GTAATGTTGG	240
GACTTTTAAA	CCTTGAATCC	ATTAGCCAGG	CTTGGGATGA	AAGGACCATC	TAAAATCATG	300
CTAGTCTAAA	CCATGCTCTT	CCACACAGCT	GTTTAAAAAC	CACTGGGTAT	GAGGAATATG	360
CTAGAAAGAA	ATGTTAAAAA	TAGATTGTTG	GCTCACACTT	ATTTTTCTAA	TAAATAGGAC	420
CATTATTACT	ACCAGGAAAG	TCTTATTTAT	TTTGCCTGAA	ATTGGCTTAA	AGAAAGTCTC	480

ATGACGGGAT GGGATGGGCC GGCACTCGAG	510
(2) INFORMATION FOR SEQ ID NO:458:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 382 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(x1) SEQUENCE DESCRIPTION: SEQ ID NO:458:	
GAATTCGGCC TTCATGGCCT AGCGGAAACA ACTGAAACTA ATGGAAGATA TGGATACAGT AATTAAACCC CGTCCTCAAG TAGTAAAACA AAAAAAACAG CGACCAAAAT CTATTCACAG AGATCATATT GAATCCCCCA AAACACCAAT AAAGGGTCCT CCAGTCTCTA GCCTTTCTTT GGCATCGCTG AACACGGGTG ATAACCAAGAG TGTACATTCA GGCAAGAGGA CGCCAAGATC AGAGTCTGTA GAAGGCTTCT TATCTCCAAG TCGTTGTGC AGTCGAAATG GAGAAAAAGA CTGGGAGAAT GCATCAACAA CTTCTTCAGT GGCTTCTGGA ACAGAATATA CAGGACCAAA GCTCTACAAA GAACACCTCG AG	60 120 180 240 300 360 382
(2) INFORMATION FOR SEQ ID NO:459:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 433 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:459:	
GAATTCGGCC TTCATGGCCT ACTGAGTCCC AGGCCGGGC CCTGCCCAG CCAGGGCTGG GACTCTGCAG TTGGGAGCTT GTCCAGCTGC CCCCTCTAAT GCTTTTCTCC TCCAGGACAC -AGGGAGCCTC CGGAAGCACA GTAGTCCCG TGTGTCACCT TAGGCTGACC TCTGTCCCCA GGGGTGACGT AATGCTGTCA CTGTCTTGAA TTCTTCATCAG AGCCCAGTGT TTTCACCAAA AGCAGAATTG GATTTTTTT TTAAGTCGAT AAATTTTTAC TCAAGGAATT CCATGTTGTG ATTTCTTCCA CTGTCCATCA AGGTCACTT AGATCCTCTA AAGAGCTAGA GTCAAAAGAT TTATCTTCAA GTTAGTCCTT TTTAATGAAA CCGATGCTTA TTTTAATCCA GTCAGCCCCC GAG	63 120 180 240 300 360 420 433
(2) INFORMATION FOR SEQ ID NO:460:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:460:	
GTCCGGCTAA AGTAATCCAG TCACCTGCTG CTGATACTAG AAGGGCTGAG ATGTCACAAA CAAATTTTAC CCCTGACACT CTTGCCCAGA ATGAAGGGAA GGCTATGTCT TATCAGTGTA GCCTTTGTAA GTTTCTATCA TCATCCTTTT CCGTGTTAAA AGATCATATT AAGCAACATG	60 120 180
GTCAGCAAAA TGAAGTGATA CTGATGTGCT CAGAGTGCCA TATTACATCT AGAAGCCAGG	240

AGGAACTTGA AGCCCACGTG GIGAATGACC ATGACAATGA IGCCAATATC CACACCGAAC TCGAG	305
(2) INFORMATION FOR SEQ ID NO:461:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 563 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:461:	
GAATTCGGCC TTCATGGCCT AAGAATATC AGTCCAAGCA AGAGGAATTA CAGAAAGATA TGCAAGGAAG TGCACAGGCA TTGGCTGAAG TAGTGAAAAA CACAGAGAAC TTCTTAAAAG AGAATGGTGA AAAGCTGTCA CAGGAAGATA AGCAGAACA GTCTAAAAAG GAGCTGGATA AAGTTGTGAC AACACAAATA GAAAACCTTT TGGACTGGTT GTCAAAAGGT AAGCAGAACA AACACAAAATA GAAAACCTTT TGGACTGGTT GTCAAATGTT GACAAAGACT CAGAAAGGCC AGGGACAAAA CACAAAACAG TAATCGAACA GACCGGACC CATTTTCAAG AAGGTGATGG CAAGTCAGCA ATTGGAGAAG AGGATGAAGT TAATGGTAAC CTGTTGGAGA CTGATGTTGA TGGGCCAGTT GGAACCACTC AGGAGAATCT GAATCAGCAA TATCAGAAAG TTAAGGCCCA ACATGGACTC GAG	600 1200 1800 2400 3000 4200 4800 5400 563
(2) INFORMATION FOR SEQ ID NO:462: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 477 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:462:	
GCGGCTGTGA AGATGGCGGC GGCTGCGTGG CTTCAGGTGT TGCCTGCAT TCTTCTGCTT CTGGGAGCTC ACCGCTCACC ACTGTCGTTT TTCAGTGCGG GACCGCCAAC CGTAGCTGCT GCCGACCGGT CCAAATGGCA CATTCCGATA CCGTCGGGGA AAAATTATTT TAGTTTTGGA AAGATCCTCT TCAGAAATAC CACTATCTTC CTGAGAGTTG ACGAGAACC TTGTGACCTG TCTTTGAATA TAACCTGGTA TCTGAAAAGC GCTGATGTT ACAATGAAAT CTATAACTTC AAGGCAGAAG AAGTACAGTT GTATTTGGAA AAAACTTAAAG AAAAAAAAGGG CTTGTCTGGG AAATATCAAA CATCATCAAA ATTGTTCCAG AACTGCAGTG AACTCTTTAA AACACAGACC TTTTCTGGAG ATTTTATGCA TCGACTGCCT CTTTTAGGAG AAAAACAGGA GCTCGAG	60 120 180 240 300 360 420 477
(2) INFORMATION FOR SEQ ID NO:463:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 382 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:463:

PCT/US98/06956 WO 98/45437

GTTGCACTCC	TGTTGTACTC	TTTTAGAGGT	GGAAAAGAGG	TGGATACTGA	GATCTAAGAG	60
GAAAGGATAG	TCATTCACGT	TCTGAGATAT	GCGCTCTCTC	TATTGTTCTC	GAACACAAAG	120
GGATAGTCTC	TTTTCTGGAG	CTGATGTCCC	TGCTTGGAGG	TTAGCCCCAA	AACATGGCTC	180
TTGTATTGTT	CTAAGAGAAA	AGGCTTTCAT	TTTGGTTCTT	CTGATTGGTG	TTACCTACTG	240
CCTAATATGT	GTTCATTTTT	TGACAGAGAG	GCAGACTATT	GAAAAAGTCT	GTGTGAACAG	300
AGAGCAGTTC	ATTAAGCCCA	TTGCTTTCAG	TAATGTGGCC	TTGACCCCTT	CTGCTTCCCC	360
CTTCTCCCAT	GACGAGCTCG	AG				382

- (2) INFORMATION FOR SEQ ID NO:464:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 275 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:464:

GGACCTGCCT	CAAGGACATG	GGTGGACATA	TGGGCGGACT	CTCAGGGACA	ACCAAAGTGA	60
TGATCACACT	GACCGATGTC	AATGACAACC	CACCAAAGTT	TCCGCAGAGC	GTATACCAGA	120
TGTCTGTGTC	AGAAGCAGCC	GTCCCTGGGG	AGGAAGTAGG	AAGAGTGAAA	GCTAAAGATC	180
CAGACATTGG	AGAAAATGGC	TTAGTCACAT	ACAATATTGT	TGATGGAGAT	GGTATGGAAT	240
CATTTGAAAT	CACAACGGAC	TCTAAAACAC	TCGAG			275

- (2) INFORMATION FOR SEQ ID NO:465:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 488 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:465:

GTTCTAGACC	TACCCCGAAC	AGCCCCAAAC	AGTCAGAGTG	GCACAAAATG	ACAGTCTCCA	60
AAAACTGCCC	CGACCAAGAT	CTCAAAATCA	AACTTGCTGT	CCGAATGGAT	AAGCCTCAAA	120
ACATGAAGCA	TTCTGGGTAT	TTATGGGCCA	TCGGTAAGAA	TGTCTGGAAG	AGATGGAAGA	180
AAAGGTTTTT	TGTATTGGTG	CAGGTCAGTC	AGTACACGTT	TGCCATGTGC	AGTTATCGGG	240
AGAAGAAAGC	GGAGCCTCAG	GAACTTCTAC	AATTGGATGG	GTACACTGTG	GATTACACCG	300
ACCCCCAGCC	AGGTTTGGAG	GGTGGCCGAG	CCTTCTTCAA	TGCTGTCAAG	GAGGGAGACA	360
CCGTGATATT	TGCCAGTGAC	GATGAACAAG	ACCGCATCCT	GTGGGTCCAG	GCCATGTATC	420
GGGCCACGGG	GCAGTCACAC	AAGCCTGTGC	CCCCGACCCA	AGTCCAGAAA	CTCAACGCCA	480
TCCTCGAG						488

- (2) INFORMATION FOR SEQ ID NO:466:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 300 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:466:

GAATTCGGCC TTCATGGCCT AGCCGCTGCG GTGAGCCTTG AAGCCTAGGG CGCGGGCCCG GGTGGAGCCG CCGCAGGTGC AGATCTTGGT GGTAGTAGCA AATATTCAAA CGAGAACTTT GAAGGCCGTC TGAGCTAAAA AATAATGCTG ATTTGGCCTC ATCATATTTA TGAAGGAGGG AGAAATAGAA GCATGTATAA TGTAGAAAAA CATATCTTAT CCTTATGTTT GCATATATTG TTGAATAAAT ATAGTTTAAT GAATATGTTT TCTCACCTTT CTTTGCTTGC ACTTCTCGAG	60 120 180 240 300
(2) INFORMATION FOR SEQ ID NO:467: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 381 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:467:	
GTTCTAGACC TGCCTCGAGA TATGCCGGAA GGTTGCATGG CTGGTCCCAG GGCCAGCACA GGCCCGAGGC CGGGCTGCCT GGTTTTATTT TTATTTAACT TTATTTTCTG TTTTATGAGT GTGTGTCCGC CCACCCCCAC CCCCTTCAGT GTTAAGTGGG GAGCCCTGGG GGAGTCTCTC CTGCCTCCCA GCCTCTCCCA AGACCTCCCC CCTCGTCACC AGCCATCCCT CTGGACCAGG CAGAGGGCGG ACCGGGTGGG CAGGGGCCTG AGGGTGGCTC GGGCCAGCC ACCAGCCAAT GGACCCCTCC TCAGGCCGCC AGTGTCGCCC TGCCCCTTTT TAAAACAAAA TGCCCTCGTT TGTAAACCCT TAACGCTCGA	60 120 180 240 300 360 381
(2) INFORMATION FOR SEQ ID NO:468: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 304 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:468:	
GCTGTCCAAT TATACTGACC TGGCCATGAG CACGGTGAAG CAGACCCAAG CCATTCCATA TACTGGTCCC TTTAATTTGC TCTGTTACCA GCTGCAGAAA TTGACAGGTG ATGTGGAAGA ATTAGAAAAT CAAGAAAAAC CTGCTCTGAA AGTGTTCAAA AATATTACTG TAATACAAGA ACCAGGCATG GTGGTATTAG AATGGCTGGC AAACCCTTCT AATGATATGT ATGCAGATAC AGTAACAACT GTGATATTGG AAGTTCAGTC AAATCCCAAA ATAAGAAAAG GCGCAGAACT CGAG	60 120 180 240 300 304
(2) INFORMATION FOR SEQ ID NO:469:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 346 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:469:	

60 120

GCGATTGAAT TCTAGACCAC CCCGCACTCC AGCCTGGGCA ACAGAGCAAG ACTCTTTCTT AAAAAAAATTA AAAAAAAAAG GAGTACCCAT TGGGATAAAC CTCTTTGGAG GAGAGGACAT

AGTACAGAGG TTATACTGCA ACATGGACC ACCAATAGCC ATGGATAACT TAGTTGGGAT TACCCCTGCC TGCTGTTTAG ATACTTACAT GGACACTAAT TTCTGCCCAT CAACCTCCCT CTCTTTCTCC TTCAATGCCC ATCAACCTCC CCCTCTTTCT CCATCAATGC TATGTTGGTT TTTTTTATTT GCCATCTTGG CAGGTTTAGG GCAGAGCATG CTCGAG	180 240 300 346
(2) INFORMATION FOR SEQ ID NO:470:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 321 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:470:	
GAATTCGGCC TTCATGGCCT AGGATTTCA GCAAGAATTA AATTATTCTG CATATTGGAC AGGGCCTATT TAGAGGCCTG CACATCTGTT TTTATCCATT TGTGTAACGA TACCGTGTGT CAAAGATAGGT TCATGGATCA GATGAGAAAA GTCAATTCTC TAAGATACCT TCCCTTGTGG CTGTGGATCC AGCTCCTCAG CCCCCCCCCC	60 120 180 240 300 321
(2) INFORMATION FOR SEQ ID NO:471:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 417 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:471:	
GAATTCGGCT TCATGGCCTA CTTCATTCAC TGTAAAACCA ATAGCAAACA ACGGAAGAGA CGGGCAGAGT TGAAGCAACA AAGAGAGGAG GAGGCAACAT GGCAAGAGCA GGAAGCCCCT CGGAGAGACA CTCCCACCGA AAGTTCTTGC GCAGTGGCCG CCATTGGCAC CTGGAAGGC AGCCCCCCAG GTATCTCCAC CTCCTTCTTT AGGAAGGTGC TGGGCTGGCC CCTCAGGCTG CCGAGGGACC TGTGTAACTG GATGCAGGGA CTCCTGCAAG CTGCTGGCCT CCATATCAGG GACAATGCTT ACAACTACTG CTACATGTAC GAGCTCCTGA GCCTGGGGCT GCCACTCCTC TGGGCGTTCT CTGAGGTCCT GGCAGCCATG TACAGGGAAT CTGAGGGCTC CCTCGAG	60 120 180 240 300 360 417
(2) INFORMATION FOR SEQ ID NO:472:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 331 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:472:	

GAATTCGGCC TTCATGGCCT ACAAGAGGCA GCTTATAGAC AACCGCAAGC TCATTGAGAC GCAAATGGAA CGGTTCAAAG TTGTGGAACG AGAGACCAAA ACCAAAGCTT ACAGCAAAGA GGGCCTGGGC CTGGCCCAGA AGGTAGATCC TGCCCAGAAG GAGAAGGAAG AGGTTGGCCA

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GGAGTCACTG	AATACCATCG ACACGCTCAA CATGCAGGTG GACCAGTTTG AGAGTGAAGT TCAGTGCAGA CACGCAAGAA GAAGGGCGAC AAGGATCAGA AGCAGGACCG TTGAAGCAGC AGCATCTCGA G	240 300 331
(2) INFORM	ATION FOR SEQ ID NO:473:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 260 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:473:	
TATACAGCAG AAGACCATCC TTTTGTTTCT	TTCATGGCCT AGAGGTGCTT CAGTGGTACA ATCAGTTAGC ACACAGTACG TATGTGTGTG AGAAATTATT TTAAATATAA GAATTATCAA AAATTATAAG CTTTAACTGA ATAGTTTCAC CAAAAATCAG AAAAATATGT AAGTGATACA TGGATATAGC AATGTACCAC CTTGCATAAA TGAGACTATT AAAATGATCA GAAGTTCGAG	60 120 180 240 260
(2) INFORM	ATION FOR SEQ ID NO:474:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 511 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:474:	
GTGAGTAGCA GATAACCTTG CAACTGGAAG GCAAGAAGAA GAGGATATTA ACAGTGCCTC TACAGCCAAC	TTCATGGCCT ACAAAGATTT GAGGAAAAGA GGTTCAAATT GGACCACTCA CCAATGGCCA CAGGTGGCAG ATATTCCAAG ATTGGTGGA AACTGACCAA ATTTGGCCAA TGTCAATCTT ATGTTGGAGT TACTAGTGCA GAAGAAGAAA CCAGAATCACA TGCAGCCCAA CTACAGATTC TTATGGAATT CCTCAAGGTT ATAAGAGAGA GCAACTGGAA CAGATCCAGA AGGAGCTAAG TGTTTTGGAA AGAGAGTGGA AGAAATGAGT GGCTTATACT CTCCTGTCAG TGAGGATAGC AATTTGAAGC TCCTTCTCCA TCACACAGTA GTATTATTGA TTCCACAGAA CTCCAGGTTT CAGTGGCAGT TCTCAGACAA AGAAACAGCC TTGGTATAAT CATCAAGACT GAAAACTCGA G	60 120 180 240 300 360 420 480 511
(2) INFORM	ATION FOR SEQ ID NO:475:	
(i)·	SEQUENCE CHARACTERISTICS: (A) LENGTH: 610 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)		
	SEQUENCE DESCRIPTION: SEQ ID NO:475:	

CCTCCCTATG	CTGCACCTGA	ACTCTTTGAA	GGAAAAGAAT	ATGATGGGCC	CAAAGTGGAC	240
ATCTGGAGCC	TTGGAGTTGT	CCTCTACGTG	CTTGTGTGCG	GTGCCCTGCC	ATTTGATGGA	300
AGCACACTGC	AGAATCTGCG	GGCCCGCGTG	CTGAGTGGAA	AGTTCCGCAT	CCCATTTTTT	360
ATGTCCACAG	AATGTGAGCA	TTTGATCCGC	CATATGTTGG	TGTTAGATCC	CAATAAGCGC	420
CTCTCCATGG	AGCAGATCTG	CAAGCACAAG	TGGATGAAGC	TAGGGGACGC	CGATCCCAAC	480
TTTGACAGGT	TAATAGCTGA	ATGCCAACAA	CTAAAGGAAG	AAAGACAGGT	GGACCCCCTG	540
AATGAGGATG	TCCTCTTGGC	CATGGAGGAC	ATGGGACTGG	ACAAAGAACA	GACACAGAAG	600
GCGGCTCGAG						610

- (2) INFORMATION FOR SEQ ID NO:476:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 409 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:476:

GGAGATTGGC	CACCTCCAAG	ATATGGTAAG	GAAAAGTGAA	CAAGGTCTTG	GCTCTGCAGA	60
AGGACTTATT	GCTAGTCTTC	AGGACTCCCA	GGAAAGGCTT	CAGAATGAGC	TTGACTTGAC	120
TAAAGACAGC	CTAAAGGAGA	CCAAGGATGC	TCTATTAAAT	GTGGAGGGTG	AGCTAGAACA	180
AGAAAGGCAA	CAGCATGAAG	AAACAATTGC	TGCCATGAAA	GAAGAAGAGA	AGCTCAAAGT	240
GGACAAAATG	GCCCATGACT	TAGAAATTAA	GTGGACTGAA	AATCTTAGAC	AAGAGTGTTC	300
TAAACTTCGT	GAAGAGTTAA	GGCTTCAACA	TGAAGAGGAT	AAGAAGTCAG	CAATGTCTCA	360
ACTTTTGCAG	TTGAAAGATC	GAGAGAAAAA	TGCAGCAGAG	AAACTCGAG		409

- (2) INFORMATION FOR SEQ ID NO:477:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 272 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:477:

GTATGCCTGT	TCCAGACCAG	CCTTCATCAG	CCTCAGAGAA	GACGAGTTCC	CTGAGCCCCG	60
GCTTAAACAC	CTCCAACGGG	GATGGCTCTG	AAACAGAAAC	CACCTCTGCC	ATCCTCGCCT	120
CAGTCAAAGA	ACAGGAATTA	CAGTTTGAAA	GGCTGACCCG	AGAGCTGGAG	GCTGAACGGC	180
AGATCGTAGC	CAGCCAGCTG	GAGCGATGCA	AGCTCGGATC	CGAGACTGGC	AGCATGAGCA	240
GCATGAGTTC	AGCAGAAGAG	CGGATACTCG	AG	•		272

- (2) INFORMATION FOR SEQ ID NO:478:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 284 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:478:

GAATTCGGCC TTCATGGCT ATGCGTGGGG GTGGGGGGGC AGGCTAGAAA GGAGCCTTCC CTCCTCGGGG TGTCTAGGGT GTGCTGGCCA CTGGAAGATT GGAGTCGCTG ACCCAGTGCT GACCCTGACC CTTGGCTGGG TCCACTCTGC AGACTCCACC TGAGGAGACC CACCCAGGGT GAAGCTCGGT GCCCAGGCCT GAACTGAGCC CGGCCGGGTG CAAGGGCTGA GGTGTGAGGT CGGCCCAGGC CTCTTCCCAG GCCTGAGGGT GGCTACAGCT CGAG	60 120 180 240 284
(2) INFORMATION FOR SEQ ID NO:479:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 352 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:479:	
GAATTCGGCC TTCATGGCCT ACTAAATTTT CCAAAACGTT GATTTGCATA ATACAGTGGT ATGTGCAATG GATAAATTGC CGTTATTTCA AAAATTAAAA TTCTCATTTT CTTTCTTTTT TTTCCCCCCT GGTCCACACT TCAAAACTCC CGTAGATCA GCATTCTACT ACAAGAGTGA AAGGAAAACC CTAACAGATC TGTCCTAGGA ATTTTACCTT TGTTCTAGAA GGCGCTCCT TCAGGGTTGT GGTATTCTTA GGTTAGCGGA GCTTTTTCCT CTTTTCCCCA CCCATCTCCC CAATATTGCC CATTATTAAT TAACCTCTTT CTTTGGTTGG AACGACCTCG AG	60 120 180 240 300 352
(2) INFORMATION FOR SEQ ID NO:480:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 263 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:480:	
GAATTCGGCC TTCATGGCCT ATTAAAAGAA TGTTCTTTCA TTAAAAGACC AAAAAGAAGT TAAAACTTAA ATTGGGTGAT TTGTGGGCAG CTAAATGCAG CTTTGTTAAT AGCTGAGTGA ACTTTCAATT ATGAAATCTG TGGAGCTTGA CAAAATCACA AAAGGAAAAT TACTGGGGCA AAATTAGACC TCAAGTCTGC CTCTACTGTG TCTCACATCA CCATGTAGAA GAATGGGCGT ACAGTATATA CCGTGTTCTC GAG	60 120 180 240 263
(2) INFORMATION FOR SEQ ID NO:481:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:481:	
GGAGCAGGAA GAAATGCAAG AGGAGATGGA GAAGCTGCGA GAGGAAAACG AGACTCTCAA GAACGAGATC GATGAGCTGA GAACCGAGAT GGACGAGATG AGGGACACTT TCTTCGAGGA GGATGCCTGT CAACTGCAGG AAATGCGCCA CGAGTTGGAG AGAGCCAACA AAAACTGCCG GATCCTGCAG TACCGCCTCC GCAAAGCCGA GCGCAAAAAGG CTCCGCTACG CCCAGACCGG	60 120 180 240

GGAAATCGAC GGGGAGCTGT TGCGCAGCCT GGAGCAGGAC CTCAAGGTTG CAAAGGATGT ATCTGTGAGA CTTCACCATG AATTAGAAAA TGTGGAAGAA AAGAGAACAA CAACAGAAGA TGAAAACGAG AATCTCGAG	300 360 379
(2) INFORMATION FOR SEQ ID NO:482:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 301 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOFOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:482:	
GATCCTCACA CCAGAAGTTA ACAAGGGATT GAGGAATGAT TTGAAAGCAG CCTTGGATAA GATTGATCAG CAGTACCTCA ATGAAATCGT CGGCGGTCAG GAGCCTGGAG AGGAAGACAC ACAGAATGAT CTGAAAGTTC ATGAGGAAAA CACCACAATT GAAGAGTCAG AGGCCCTCGA	60 120. 180 240 300 301
(2) INFORMATION FOR SEQ ID NO:483:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 168 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:483:	
	60 120 168
(2) INFORMATION FOR SEQ ID NO:484:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 452 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:484:	
GCAAGCTCTC CATGGAAACC CCTGCCAAAA CAGAAGAGAT AAAACTGGAA AAGGCTGAGA CAGAAGACCCCCCCCCC	60 120 180 240 300 360 420 452

(2) INFORMATION FOR SEQ ID NO:485:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:485:

GTTTGTAAAT	CACCTGATGA	TGGTGATATA	GCTGTGGCCA	ACGAAATGTC	AAGGGAAGTC	60
TGCTGGGGAA	GGTAGACGTA	GGATAGGAGT	ATGGGAAAAA	ATTATTCACT	CAAAAGCATG	120
ATGCACAGAG	GAGCTATGAT	CTTTTCTTGT	TTTCCTCACT	GGATGTTGTC	ATGTCTGTAT	180
GTACTTCCTG	GAACTGTGGC	ACCATCTTAC	AACCATGAAA	GGAGCTCACA	TGAAATCATG	240
TTGAACATAG	CAGAGCGGGA	AGATGGAAGG	AATCCGAGAT	${\tt CTATGTTTGA}$	TGTTAAGCGA	300
TGATGTTAAA	AACTTAAAAA	ACTCCAGAAC	TCTCTTACCC	CTGGTGCTCG	ĀG	352
	TGCTGGGGAA ATGCACAGAG GTACTTCCTG TTGAACATAG	TGCTGGGGAA GGTAGACGTA ATGCACAGAG GAGCTATGAT GTACTTCCTG GAACTGTGGC TTGAACATAG CAGAGCUGGA	TGCTGGGGAA GGTAGACGTA GGATAGGAGT ATGCACAGAG GAGCTATGAT CTTTTCTTGT GTACTTCCTG GAACTGTGGC ACCATCTTAC TTGAACATAG CAGAGCUGGA AGATGGAAGG	TGCTGGGGAA GGTAGACGTA GGATAGGAGT ATGGGAAAAA ATGCACAGAG GAGCTATGAT CTTTTCTTGT TTTCCTCACT GTACTTCCTG GAACTGTGGC ACCATCTTAC AACCATGAAA TTGAACATAG CAGAGCUGGA AGATGGAAGG AATCCGAGAT	TGCTGGGGAA GGTAGACGTA GGATAGGAGT ATGGGAAAAA ATTATTCACT ATGCACAGAG GAGCTATGAT CTTTTCTTGT TTTCCTCACT GGATGTTGTC GTACTTCCTG GAACTGTGGC ACCATCTTAC AACCATGAAA GGAGCTCACA TTGAACATAG CAGAGCUGGA AGATGGAAGG AATCCGAGAT CTATGTTTGA	GTTTGTANAT CACCTGATGA TGGTGATATA GCTGTGGCCA ACGAAATGTC AAGGGAAGTC TGCTGGGGAA GGTAACGTA GGATAGGAGT ATGGGAANAA ATTATTCACT CANAAAGCATG ATGCACACGAG GAGCTATGAT CTTTTCTTGT TTTCCTCACT GGATGTTGTC ATGTCTGTAT GTACTTCCTG GAACTGTGGC ACCATCTTAC AACCATGAAA GGAGCTCACA TGAAATCATG TTGAACATAG CAGAGCJGGA AGATGGAAGG AATCCGAGAT CTATGTTTGA TGTTAAGCGA TGATGTTAAA AACTTAAAAA ACTCCAGAAC TCTCTTACCC CTGGTGCTCG AG

- (2) INFORMATION FOR SEQ ID NO:486:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 420 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:486:

GAATTCGGCC	TTCATGGCCT	ACTCAGCTGG	AAGCTTTACT	CCCTCCTCGA	CAGAAAGTGA	60
GGATTACAGA	TGACATGGAT	CAGGTGGAGC	TGAAGGAGTT	TTGTCCCAAT	GAGCAGAACT	120
GGCGTCAGCA	CAGGGAGGCC	TACGAGGAGG	ACGAAGACGG	GCCCCAGGCT	GGAGTGCAGT	180
GCCAGACGGC	ATGACGTGGT	GCGGGGCAGC	GTGGCCCCAC	CGGACTAGCA	CATGATGAAT	240
GTAAAGTTGG	CACAATGAAA	ATGACATCGC	TTTAATGGCC	TTGTGTTTGG	GATGTCCTGT	300
GTATGTGTTC	AGCATTCTTA	ATTGCTGAGT	GTCTTTTTGG	CTTTTCTTTT	GGTTGTAACT	360
TAAGTTATAG	CTTAATTTAT	ATTTAAATGT	TTTAAGTATA	AATCACCTCT	AGGCCTCGAG	420

- (2) INFORMATION FOR SEQ ID NO:487:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 318 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:487:

GGAGTGTCAA	GAATAACCGC	TCAGGTTGAG	TGTAAAAATA	TTTTATGGTC	CCATCAGCAT	60
CAACCTGCCT	TAATGCTTCT	TTGGTTGTCT	CTTCAGCTAG	TTCTTATTTT	ACAGCACATG	120
ATATATGAAG	TGATTTCACA	CCATGCCCAA	GATACGGGCC	ACCCACCAGC	TACATGGCAT	180
GATGACTCTG	CAGGCCGAAC	GGCAGCCTTG	ATAATTATAA	GGCCATGGGT	AATAGCCCCC	240
CAGGGGTTCA	CAGATCTTCT	GGCAGTGGGT	GTAGCTCCGC	CTACATTCTA	TACAACAGAT	300
TCCTTCGCCT	GCCTCGAG					318

(2) INFORMATION FOR SEQ ID NO:488:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 487 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:488:	
GAATTCGGCC TTCATGGCCT AGGTGTTTC TTTAAGGAGG AATAGAAAA TCAGGTGGTC ACTACTACAA GGGAAAGGG AATGTGGTTT CAAAAAGGGT TTTGCCTTAT TTATTTTATT	60 120 180 240 300 360 420 487
(2) INFORMATION FOR SEQ ID NO:489:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 149 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:489:	
GCGATTGAAT TCTAGACCTG CCTCGAGACA AAAACTGTGA ATAGTGAGTG ATTTAAAAAA AAAAAATAAA CTGAAAGGAA AATTGTTGAA TGTTTGAATC TTGCCTAGTC CCCTCACCCC CAAGGCTGGC TTCTAGAGTT AAGCTCGAG	60 120 149
(2) INFORMATION FOR SEQ ID NO:490:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:490:	
GCAAATTTTG GAAGATTTAG ACCATTATTT CTCAAAATAT TTCTTACCTG CTCTCCTC TTTCTCCCAC TCCTCCCAT CACCTTCTGG CACTTCCATT GTTCATATAT TGATATGCTT AATGATGTTT CTGAAGATTT ATTCATTTTT CCTTTATTCC TTTTTATTCT GTTCCTCAGC CCAGATCATT TCAATGCACA TATCCTCAAG TTTGCTGATT CTTTCATTTC CTGCTCAGAT CTGCTGCTGG CCCCTCGAG	120 180 240 259
(2) INFORMATION FOR SEQ ID NO:491:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 320 base pairs (B) TYPE: nucleic acid	

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:491:	
GAATTCGGCC TTCATGGCCT ACAAATGTTT AATCAGAGAC TCATATTCAC CTTTAAGTAA AAAACATACT TCTTTCCCCC TAATAGTCAC AGCATTCTGC AGAGCTAAAG AAGGAGACCA GGAGCTGTG GGAGCAAAGA TCATTTTGTG AAGCTAGAGG TCCAATTTAA AAGCAGTTGC TGCTACAAAT TAAAACATAT TTGCATTCTG CCTAAAAATAG TTGTCTCTTT GAACGTTGGG TGCCTTTTTT AGGTTGCTTT GTGAATAATA TGCACAAAAT GAAAATGTTA AAAAAAACAT GTAGCCTGCT AACCCTCGAG	60 120 180 241 300 320
(2) INFORMATION FOR SEQ ID NO:492:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 224 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:492:	
GAATTCTAGA CCTGCCTCCA GCCACTTCAA ACCTTTGGTG ACCAAAGTGG GGTAAAAACA AGCACCTGCG TGCGTTGTGG TTATTCTATG CTCTCCAATA TATATAAATT TTAAGAAGTT TTTCTTTGAGG TGGTCAGTTC TTAAAACCAAG AAAGTGGTAG TAGTTGATTT TAATTAGTGT AAAGTTGTCT TCGTAACTTC CGTGTTGGTT GGAAATAGCT CGAG (2) INFORMATION FOR SEQ ID NO:493:	60 120 180 224
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 320 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:493:	
GAATTGCCTT CATGGCCTAC CGAATCAGAC AGAAGAAAGC CCAGGGCTCC ACTTCTTCTA CAAGGTTGCA TGAGCCCGAG AAGAATGCCA GAGAAATAAC ACAGGACACA AATGATATCA CATATGCAGA CCTGAACCTG CCCAAGGGGA AGAAGCCTGC TCCCCAGGCT GCGGAGCCCA ACAACCACAC GGAGTATGCC AGCATTCAGA CCAGCCCGCA GCCCGCTCG GAGGACACCC TCACCTATGC TGACCTGGAC ATGGTCCACC TCAACCGGAC CCCCAAGCAG CCGGCCCCCA AGCCTGAGCC GTCCCTCGAG	60 120 180 240 300 320

- (2) INFORMATION FOR SEQ ID NO:494:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 504 base pairs
 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:494:

GAATTCGGCC	TTCATGGCCT	AGGTAGCTCT	ATGGTTTTCC	TCGCGTTCTT	GAGTCGGGAA	60
ATGGCCGCTG	TGTGGTTGCA	ACGGAGATAA	ATTCCCGGAA	CCGCGATTCG	GCGTGTCAGG	120
AATTCGAATT	TAGAGTTTAA	TTTCTCAGAG	CATTCTCTCC	AGGAAGAATT	TTTACAGTAT	180
CTCAAAGACT	TCACTTGACT	TCTTGATCCT	GCATAAAACC	AAGGAGAAAA	GAAATGGGTC	240
GCTCCAATTC	TAGATCACAT	TCTTCAAGGT	CAAAGTCTAG	ATCACAGTCT	AGTTCTCGAT	300
CAAGATCAAG	ATCTCATTCT	AGAAAGAAGC	GATACAGTTC	TAGGTCTCGT	TCCAGAACAT	360
ATTCAAGGTC	TCGTAGTAGA	GATCGTATGT	ATTCTAGAGA	TTATCGTCGC	GATTACAGAA	420
ATAATAGAGG	AATGAGACGA	CCTTATGGGT	ACAGAGGAAG	GGGTAGAGGG	TATTATCAAG	480
GAGGAGGAGG	TAGAAACCCT	CGAG				504

(2) INFORMATION FOR SEQ ID NO:495:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 190 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:495:

GAATTCGGCC	TTCATGGCCT	ACCAACTTAG	TCATTTGAAG	CCCAAGAGTC	TAATTTTATA	60
TGCCCTGCCA	ATGTCCTCAT	CTATTGCAGA	ATGNATAATT	ATCTATTTGT	TTTGGACTAT	120
ATGTTACAAA	AATTTAAAAC	ATAAGATCCT	CTCTCTATAT	TTCATTATTG	GTGAACCCAC	180
ATTGCTCGAG						190

- (2) INFORMATION FOR SEQ ID NO:496:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 305 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:496:

GAATTCGGCC	TTCATGGCCT	AGGTAAGAAA	ATCGTCAATG	AATTGTGGCA	TGACCAGGTG	60
GAGAGTAAGT	GTCATAAAGA	GGGATAGTGG	ATAGTATAAT	GTCAGGCACC	TCAAAGGAAC	120
TGGGCAGGGA	GTTAGGGAGT	AAAAAGGGCG	GTGGTCTGGA	AGCAGAAAGG	AGGAGCAGTG	180
GTCCAGTAGG	GGCTGCAGAG	CTGCAAGGCT	TTGCCTCAAT	CCTGTCAAAG	GCAACTTCAA	240
GCTTTCCAGG	AGCCATACTC	CTTCATTTGT	TCATTACTTT	CTAGATTAGG	AAATCACCAC	300
TCGAG						305

- (2) INFORMATION FOR SEQ ID NO:497:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 334 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:497:

GGTGGACTAT TTCAGTACTC TACAGGTGCC TCAGTGGAGG GAGAGCCCAT TGTCCAGGTG CTTCCTGGGA CAATACCAGA GCGCTCTGGG AAAAGGGCTG CTTGCAGGCA CGAGGGCTCA CAATGAGCCA TGGTGGGCCA CCGCCACGGC CCATGCAGCC TAATAGCAAG CCAAGGCAGG AAGCTGTGAG AGCTGCTCAA CAGTGCCCCC TAGGGACTGG TTACTTCCTG ACCCTAACCT CCGGAAATCT GCTGTCAAAG GCAGATTTCT CGAG 3.	60 20 80 40 00 34
(2) INFORMATION FOR SEQ ID NO:498:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 160 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:498:	
GTATCTGCTC CTTCAGAACA TTTTATAGAA AAGAATAATA CAAAACACAC AACTGCAAGA 1	60 20 60
(2) INFORMATION FOR SEQ ID NO:499:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:499:	
CCAAAGTTCT GGGATTACAG ACGTGAGCCA CCGCGCCCGG CCTTGTCCTG GATTTTTAA 1 CCAAGCACTA TTATTTATAG TTGCGTTAAA ATAAATAGGG ATGGGTTTGA TAAGTCACCA 1 CTTGGTGCTT TAAATTCTGC CATCATCTTT TCTAGGAGTG TAAGATATAG AGATACACAT 2	60 .20 .80 .40
(2) INFORMATION FOR SEQ ID NO:500:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 256 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:500:	
TIGITCTCTC TIGITTCCTC TCTATTTCAG CCTAGTATCA GAAGGCCAGG CGAGACTGCA ACACTGCTCA TCACCCCGCG GCGTGATCCC TGCTCTTAGG TGCTGGGCAG AGGGGAAGGG TGGTCAGGGT GAGGATGGTG AGGGAGGGCT GGTGAGGGGC TCAGAGGAAT ACTTGGAACA	60 120 180 240 256

- (2) INFORMATION FOR SEQ ID NO:501:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 635 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:501:

GAATTCGGCC	TTCATGGCCT	AGTGGTTTTG	TTGTTGTTGT	CGGAGACAGG	GCCTCGCTTG	60
GTCTCCCAGG	CTAGAGTGCA	GTGGCATGAT	CACGACTCAC	TGCAGTCTCG	ACCTTCTGGG	120
CTCAAGTGAT	CCTCCTGTGT	CAGCCTCCCA	CACAGCTGGG	ACTACAGGCA	CATGCCACCA	180
CATCCAGCTA	ATTTAAAAAAA	CATTTTTTT	GTAGAAATAG	GGTCTTACCA	TGTTGCCCAG	240
GCTAGTCTCA	AATTCCGGGG	CTCAAGCAAT	CCTCCCACCT	CACCTTCCCA	AAGTGCTGGG	300
ATTACAGGCA	TGAGTCACCA	TACTTGGCCC	GAGTGAGCCA	AGATTGCACC	ACTGCACTCC	360
AGCCTGGGCT	ACAGAGCAAG	ACACTATCTT	AGATCCNNAA	AGGAAAAAA	AAAAAGAAGG	420
AGAAAGAACC	AGAGAAACAT	AAGGAAGAGT	GAGAGGAAGA	AAGAAAGATG	CAATTTGGGA	480
AGAAATGAAA	AAGAAATGAA	${\tt TAAAGAATAA}$	AATAATGTAA	CGGTCAATAA	ATAGGACTTG	540
TGAATGGAGG	CCTTTAGGCC	AAAGGCTATG	ATTAATTTCA	AGCTATGTTA	CTGAAGTCCA	600
TAAACAAAGG	ACTCAGATCT	AAATGGGTAC	TCGAG			635

- (2) INFORMATION FOR SEQ ID NO:502:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 452 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:502:

GAATTCGGCC	TTCATGGCCT	ACCCGTAGAA	ATCCCCCTTT	CTCTAATAGC	GAGGCTCTAA	60
CCACACAGCC	TACAATGCTG	CGTCTCCCAT	CTTAACTCTT	TGCCTTTGCC	ACCAACTGGC	120
CCTCTTCTTA	CTTGATGAGT	GTAACAAGAA	AGGAGAGTCT	TGCAGTGATT	AAGGTCTCTC	180
TTTGGACTCT	CCCCTCTTAT	GTACCTCTTT	TAGTCATTTT	GCTTCATAGC	TGGTTCCTGC	240
TAGAAATGGG	AAATGCCTAA	GAAGATGACT	TCCCAACTGC	AAGTCACAAA	GGAATGGAGG	300
CTCTAATTGA	ATTTTCAAGC	ATCTCCTGAG	GATCAGAAAG	TAATTTCTTC	TCAAAGGGTA	360
CTTCCACTGA	TGGAAACAAA	GTGGAAGGAA	AGATGCTCAG	GTACAGAGAA	GGAATGTCTT	420
TGGTCCTCTT	GCCATCTATA	GGGGCGCTCG	AG			452

- (2) INFORMATION FOR SEQ ID NO:503:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:503:

GAATTCGGCC TTCATGGCCT ACAAAATTGT CTTGACATAA GTAATTTGGG TATGCTGTAT
AAAGGCTTCT AAGAATTAAG AAACATGGCC CGGGTTGCAA ATTTTAATGC ATGACTACCT
120

TTAAGAACCA	AGAATATAGC TTTTGTCAGA TTCTCAGCAG TGGCTCTGAT CCAGAAAACA CTGGTCATGA GTGGTGATTT TCAGCTTTTT TGGTCTTAAC CCACTTAGGT CTCCTTATCT CACCTATACC ATCCAGCATC CTCGAG	180 240 286
(2) INFORMA	ATION FOR SEQ ID NO:504:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 424 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:504:	
AAGTAAACTA GTTCCTAATT AACACTAGCC AATCAATTAG CTATGAATAT	TTCATGGCCT AGAGGGGTTT AGGATTCAAA GCAAAGGGGA GACAGCTACT CAAAATAATT GCTAAACTGA AAATTGTATA AAGTGTACTG GACAGATGAT CTTATCCATG AAATATTTTC TGCCTTCTTA GAGGAAATAG CACCTGACAC ACATTGTAGG TGATCAATCA GCACATGTCT AAATAAATTA ATTAAAAAAG AAATTCCACT GAAAATTCTT CTTAAATATA ACCAACTTCA TATAGACAAG AGAGCTTACA TACATGTTAT ATATCAATAT GTGAGTAGAT AAAGAATGAA TGTTGGATTT TTTATTGTTT TTGTTCTTGT TTTGGAGATG GGGTCTCACT	60 120 180 240 300 360 420
(2) INFORM	ATION FOR SEQ ID NO:505:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 204 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:505:	
TTCTTTCCCA TCTGCTTCCT	GTTTTCAGGT TCTTCCTAGC TCGGGGCTTT TAAATTTTGA AATCTAAACA CCATCCTTTT TGACTGTTGA CCTTGGTTTT CTCTTCTAAG TTTCTGTCCC TACTTTTTTT CCTTTTGAA TTCTATCTTT ATCTGTCTT TGTTCACTTT ATATGGATCT CGAG	60 120 180 204
(2) INFORMA	ATION FOR SEQ ID NO:506:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 218 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:506:	
CAGAAATGTT TTCTCTAAAA	TTCATGGCCT ATAGGCCATG AAGGCCGAGA TGTACAGTAA TAAGTATGCA AGATTATTTT TGAAGATGTG GAGAAACTAC TGTTATTTTT GCTTATATTC ATTCACTAAA TGAATAACAG TTATTGGTTT TGCTATTCAA GATAATTATA TTATAGCTAA TCTTCACATG AACTCGAG	60 120 180 218

(2) INFORMATION FOR SEQ ID NO:	2)	INFORMATION	FOR	SEO	ID	NO:	507
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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 352 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:507:

GAAGTTTAAC	ATTTCAACTG	TTGGTAAAAT	CTCCCTGGTG	CCACCTTGTC	GCACCCCCCT	60
GTTATGAGGC	ACAGTTAGTG	GGTTTATGAG	AGGTTTGTTC	AGTGAAGCTC	CTGCCACTGT	120
AGACCTAAAT	GTTTCTCTCC	CTGTTGAAGT	GACCTGCCTT	CCTCTTTAGT	ACCTAACACA	180
GTTGGCAAAG	AGCATGGCTA	ACTCAAACCC	TTTTCTTTGG	GGGCAGGCTT	CCCTTTCTCT	240
CTGGCAGGTA	TATTAAAAAA	TTACAAAATA	GTAAATTTGC	CAAATTTTTC	TTGGTGTGTA	300
GCAAGGCATA	AAGACTGAAA	AATATCTTAT	GAATTAGTTC	ACTTCCCTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:508:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 283 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:508:

GAATTCGGCC	TTCATGGCCT	AAAATGATAC	AGTGTGCAGA	ACTGGACCCA	GTAGGGAATG	60
ATAAAATGTA	CAGATGTGCA	GAACAGGACT	TGGTAGGACT	CAGCAGAGAA	AACAGGAGGA	120
GAGATGAAAA	TGATATGGTG	TGCAGAACTG	GACTCAGTAA	GGTGCGGAAA	GGGGAAGGAT	180
TCTGACAGAA	TCCAGCACAA	AAACAGAGAG	GGTGCAGAAA	AAGAGATTTG	GTCACTTAGA	240
CGTGTGGAGT	TGGAGGAGCC	TGTGGGAAAT	CCAGGATCTC	GAG		283

- (2) INFORMATION FOR SEQ ID NO:509:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 325 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:509:

GAATTCGGCC	TCATGGCCTA	CTCTCCTTTC	TTAACTTGTG	TACTTGGGGG	CACTTTTGAT	60
TTTGGTCCCA	CATCATTGAG	GAAGCTGGCC	CAGAGTTCGT	CCTCCTTCTT	TTTCCTGGCA	120
TCCTCTGATC	CAATGCCTTT	TTCCTGCTCT	GCAGCGTCAT	CTTCCTCCTC	ACTACTGCTT	180
CCCTCAGATT	CTGAATTGGC	ATCCTCCTCT	TCCTCTTCTT	CTAATGAGAG	GCCACCTTGT	240
CTTCTCTTCC	TGGCTGGAAT	GCTCTGGGCC	TTTCTTTTTT	TCCCTTGGGT	TTTCTGTGTC	300
TGCTCTTCAC	CATTAGGCCA	TGAAG				325

- (2) INFORMATION FOR SEQ ID NO:510:
 - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 281 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:510:	
GAATTCGGCC TTCATGGCCT AGACAGGAGG TCATTGGGGA TTTTAGAAGG TACATTCCA TTAAGCTTCA CGATATCCCA CAGGTCCATT CTGTGTGAAA ATTTCCTGTT CTCATGCTTC ATTTTTTCT TTTAGTAATA TCCTAATTG TATTTCTTT CATTTATCTT AATTATGTTA TATTAAGATA TCATGGTAT TACTTTTGGG CTTCAAATGA GTGACCCCAC TCAGACTCGA G	TGGTCTAAAA 120 TGTAAAATAG 180
(2) INFORMATION FOR SEQ ID NO:511:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:511:	
GAATTCGGCC TTCATGGCCT AATTCCCTTG ACTCAAGACA GCTAACTTCA TGTTTTAAAC CTTTGTGC TGGTTTATAA AATAATGTGT GTAATCCTTG GATACCAGAC TGTTTCCGT GGTTGGTTAG AATATATTTT GTTTTGATGT ATGTTTAGAT GTCAGGTTTA GTCTTCTGAA GATGAAGTTC AGCCATTTTG CACGCTCGAG	TTGCTTTCCT 120 TTATATTGGC 180
(2) INFORMATION FOR SEQ ID NO:512:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 233 base pairs (B) TYPE: nucleic acid (C) STRANDENNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:512:	
GAATTCGGCC TTCATGGCCT AATTGATTCT AATCTTTCCC AAACAGTGCT ATGAAAGAAA TAAAAAAAAA CCTTTTTCTG TTAAAAAAAA AATTGCTGTT TTGTTATGCT TTTGCTGGAG ATTTCCCAC CCATCTTAAA GCAGCAACTT GAATCAAGCA AAACCATGGT GAAGAGATTC ATTTAAAGAG GACAAGTCTC	ACTTGCTGTT 120 CAGGATGGGG 180
(2) INFORMATION FOR SEQ ID NO:513:	

- (2) INFORMAT
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 358 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:513:

GAATTCGGCC	TTCATGGCCT	AGTCACCTTT	TGTGGGAACT	TCTCTCAGCG	AAGCGGAGCA	60
TGCGAATTTG	ACATCATGAT	TGTCTGAAAA	TTGGTAAGCC	ACTATCCCAG	AAAGAGCTCC	120
CTATGCCCAG	GGCTTGCAAT	GCTAAGAGAA	GGAGGCAGGA	GAGAGACAGG	GAGCGACACT	180
ACATTTGGTG	GGGTGAGGAT	ATGAGGTTCC	TTGGACATCA	TGGCCTCCAG	TGAATATGTG	240
GGTGATGGCT	TGGAACTTAA	GCTTTTTTGC	TAGTGCCCCA	CAAAAGAGTA	CCCTCCACAA	300
CCCATCTGTG	GACCACAGCA	GTGCCTCTCA	ACAAACATGT	GCCCCAAGGA	GTCTCGAG	358

- (2) INFORMATION FOR SEQ ID NO:514:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 337 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:514:

GAATTCGGCC	TTCATGGCCT	AGAATAGAGG	AAAATAGCCG	CCTGGTGGCT	AGACAATTTA	60
GGTGTAGAAA	ACACATTTAT	ATGGTTCTTT	GAATGTAACA	GTGGTAAAGA	ATATAGGTTT	120
AGTTGTTGCT	GCTAAGTAGG	GGGAAATGAC	ATTTTTATCT	GGTATGTTTG	AGAATAAAGT	180
AAATTTCAAA	ATTTGAGATG	ATCGAAGTTT	TTATTTATAA	ACTTAAGTAT	TATTATAATA	240
TGTTACATAT	TTTATTCTTT	AAAAATTGTA	ATTCAGAGAG	TGTAACAAAA	TGTACTTCCT	300
CACTTTCTTG	CTTTTTGTTT	CCCAGAAGTA	ACTCGAG			337

- (2) INFORMATION FOR SEQ ID NO:515:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 366 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:515:

GAAAAGATGG	AAGAAAACCA	CCATAGCACT	GCAGAAGAAC	TACAGGCTAC	TCTACAAGAA	60
TTATCAGACC	AGCAACAAAT	GGTACAGGAA	TTGACAGCTG	AAAATGAGAA	GCTGGTGGAT	120
GAAAAGACGA	TTTTAGAGAC	ATCCTTTCAT	CAGCATCGAG	AGAGGGCAGA	GCAGCTAAGT	180
CAAGAAAATG	AGAAGCTGAT	GAATCTTTTA	CAAGAGCGAG	TAAAGAATGA	AGAGCCCACC	240
ACTCAGGAAG	GAAAAATTAT	TGAACTGGAG	CAGAAGTGCA	CAGGTATTCT	TGAACAGGGC	300
CGCTTTGAAA	GAGAGAAGCT	ACTCAACATT	CAGCAGCAGT	TGACCTGTAG	CTTGCGGAGA	360
CTCGAG						366

- (2) INFORMATION FOR SEQ ID NO:516:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 329 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:516:

GCGAGTGAGC	CGGGGTAGCA	TCACCTCACT	CCAGCCTAGG	TGATGACAGA	GTTAGATTTT	60
GTCTCAAAAA	AGAAAAAGAA	AACAATTCCA	GGATTATTAT	TTCTACGTAA	ATGTGACATA	120
TTATTTCTAT	GATATTATTT	CTTTGATCTC	GTAGCCACAC	TGTTCCCAAT	AATGATTATG	180
AGAAAAAGTA	CCCTCTGTTT	GAAGGCAATC	ATGGGGAAAA	TATAATTCAC	AAAGTATTTT	240
AAAATTAAAA	TCCTGTGTAT	TTCAAAAGAC	GATGGTCCTA	TTTTAAGAAA	AATAACCTTG	300
CAATTCATTT	GCTTTTTCAT	TGGCTCGAG				329

- (2) INFORMATION FOR SEQ ID NO:517:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 368 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:517:

GAATTCGGCC	TTCATGGCCT	AGTCCTTTCA	AGTACACAGA	GAAATTTTGC	TTGAATTTCT	60
GGAGGAAGAG	TCCAGGGTTC	GGGAAAAGGG	ACTGGGTGGT	ATCTATCTGG	GGCCCCAGAC	120
AGCGGCACTT	CTTTCTTCTG	TGCTGGAATT	CGGCGAACAA	TCATATCATC	TTTTTCCAAA	180
TCCGGAAGTA	CAAGTTCACC	TTCTCTACAC	TGTAAAATTA	TATCTCGCTC	TACAGAATCA	240
TCTTGCTCAG	AGAACTTTCT	AAAGTCTTCA	AAAGCTCGGA	GAACATATGG	ATTTGCATGG	300
AAAGCCCCAG	TCTTTCTGAC	AAAGAAATCA	TCATTCTCTA	AGTCAGGATC	CAGGGCTGCC	360
ATCTCGAG						368

- (2) INFORMATION FOR SEQ ID NO:518:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 397 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:518:

GAATTCGGCC TT	CATGGCCT ACGCTGAC	SAT CAAGATTCG	G AGTTTGGGCT	GCCTAATAGC	60
TGCAATGATA CT	GTTGTCCT CACTCACO	CGT GCACCCCAT	C TTGAGGCTTA	TCATCACCAT	120
GGAGATATCC TT	CTTCAGCT TCTTCATO	CTT ACTGTACAG	C TTTGCCATTC	ATAGATACAT	180
ACCCTTCATC CT	GTGGCCCA TTTCTGAC	CCT CTTCAACGA	C CTGATTGCTT	GTGCGTTCCT	240
TGTGGGAGCC GT	GGTCTTTG CTGTGAGA	AG TCGGCGATC	C ATGAATCTCC	ACTACTTACT	300
TGCTGTGATC CT	TATTGGTG CGGCTGG	GT TTTTGCTTT	T ATCGATGTGT	GTCTTCAAAG	360
AAACCACTTC, AG	AGGCAAGA AGGCCAAA	AAA GCTCGAG			39 7

- (2) INFORMATION FOR SEQ ID NO:519:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 640 base pairs
 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:519:

GAATTCGGCC	TTCATGCCTA	CTTTGGTAAC	AGAAGAGAAG	ACTGTGGAGC	CAGCTACCGT	60
CTCAGAAGAA	GCAAAGCCTG	CATCTGAACC	TGCTCCTGCC	CCTGTGGAAC	AGCTGGAACA	120
AGTAGACCTG	CCCCCAGGAG	CAGACCCCGA	TAAAGAAGCT	GCCATGATGC	CTGCGGGTGT	180
TGAGGAAGGT	TCATCAGGTG	ACCAGCCGCC	TTATCTGGAT	GCCAAGCCTC	CAACTCCCGG	240
GGCCTCGTTT	TCCCAGGCAG	AGAGCAACGT	AGATCCAGAG	CCTGACAGTA	CCCAGCCACT	300
TTCAAAACCA	GCTCAGAAGT	CTGAGGAAGC	CAATGAGCCA	AAGGCCGAAA	AGCCAGACGC	360
CACTGCAGAT	GCTGAGCCTG	ATGCAAACCA	GAAAGCCGAA	GCTGCTCCTG	AGTCTCAGCC	420
CCCAGCTTCT	GAAGATTTAG	AGGTTGATCC	TCCAGTTGCT	GCAAAGGATA	AAAAGCCAAA	480
CAAAAGCAAG	CGTTCAAAGA	CCCCTGTTCA	GGCAGCTGCA	GTGAGTATCG	TGGAGAAGCC	540
CGTCACAAGG	AAGAGTGAGA	GGATAGACCG	GGAAAAACTC	AAGCGGTCCA	ATTCTCCTCG	600
GGGAGAAGCA	CAGAAGCCTT	TGGAATTAAA	GACACTCGAG	•		640

- (2) INFORMATION FOR SEQ ID NO:520:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 469 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:520:

GAATTCGGCC	TTCATGGCCT	AGCAAGAGAA	AGAGAAGTGC	AAACACTCCC	ACGGCGAAGC	60
GCCCTCCGTG	GACGCGGATC	CCAAGTTACC	CAGTAGCAAG	GAGAAGCCCA	CTCACTGCTC	120
CGAGTGCGGC	AAAGCTTTCA	GAACCTACCA	CCAGCTGGTC	TTGCACTCCA	GGGTCCACAA	180
GAAGGACCGG	AGGGCCGGCG	CGGAGTCGCC	CACCATGTCT	GTGGACGGGA	GGCAGCCGGG	240
GACGTGTTCT	CCTGACCTCG	CCGCCCCTCT	GGATGAAAAT	GGAGCCGTGG	ATCGAGGGGA	300
AGGTGGTTCT	GAAGACGGAT	CTGAGGATGG	GCTTCCCGAA	GGAATCCATC	TGGATAAAA	360
TGATGATGGA	GGAAAAATAA	AACATCTTAC	ATCTTCAAGA	GAGTGTAGTT	ATTGTGGAAA	420
GTTTTTCCGT	TCAAATTATT	ACCTCAATAT	TCATCTCAGA	ACGCTCGAG		469

- (2) INFORMATION FOR SEQ ID NO:521:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 202 base pairs
 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (C) STRANDEDNESS: double(D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:521:

GAATTCGGCC	TTCATGGCCT	ACCCGTTTCC	TCTAGTTTCT	TCCTGTAGTA	CTCCTCTTTT	60
AGATCCTAAG.	TCTCTTACAA	AAGCTTTGAA	TACTGTGAAA	ATGTTTTACA	TTCCATTTCA	120
TTTGTGTTGT	TTTTTTAACT	GCATTTTACC	AGATGTTTTG	ATGTTATCGC	TTATGTTAAT	180
AGTAATTCCC	GCGGCCTTCA	TG				202

- (2) INFORMATION FOR SEQ ID NO:522:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 492 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:522:

GAATTCGGCC	TTCATGGCCT	AAATTTAATG	AAGCAAAATT	CCATACATCA	TTTTGAAAAT	60
AGTGTTTCTT	TCCCTGATAG	GCCTGTTCTG	CATCATTCTT	TTAGCTTCCT	TCTGCCCTGT	120
TTATCACTTG	GTCCCACTTT	TATATTTTTC	CTCTTCGGTC	CAGAATTTCT	TATTTAGTTT	180
CTTGTATTTT	GCCTACTCCC	TCCCTTCTCC	ATGATTCAGC	CTAGTCTTTC	CGTCCTCTGT	240
GGACTTGGGT	GTGCCTTCCT	CTGGGCCACC	TCGTCTTTTG	CTGCTGTTAG	CCCTCCCGCC	300
TGCGCACCTG	CCACTTCACC	CTCGCCTGTG	GTCCACTTAC	GTTCCACTCA	GCCCGGTCAG	360
TCCTGCTTTG	TTCTTCTCCA	CCGCCTTGGT	CTCCCGTGTG	TCTTATCTAG	CTCTGGTTCC	420
TTCTCGTCTC	CACATTTATT	TTGTTTTCTT	CCTGTGCTTG	TTAGTCCTTG	TGCACTTGGC	480
CCTTTTCTCG	AG					492

(2) INFORMATION FOR SEQ ID NO:523:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 394 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:523:

GAATTCGGCC	TTCATGCCTA	GGAAATTTCA	CCATTTGGTC	TCCCCCTTTG	TGGGTCAGCA	60
GGTGGTCAAG	ACAGGGGGCA	GCAGTAAGAA	GCTACAGCCC	GCCAGCCTGC	AGTCTCTGTG	120
GCTCCAGGAC	ACCCAGGTCC	ATGGAAAGAA	ATTATTCCTT	AGATTTGATC	TAGATGAAGA	180
AATGGGGCCC	CCTGGCAGCA	GCCCAACACC	AGAGCCTCCA	CAAAAAGAAG	TGCAGAAGGA	240
AGGGGCTGCG	GACCCAAAGC	AGGTCGGGGA	GCCCAGCGGG	CAGAAGACCC	TTGATGGATC	300
CTCACGGTCT	GCAGAGCTCG	TCCCCCAGGG	CGAGGATGAT	TCTGAGTATT	TGGAGAGAGA	360
CGCCCCTGCA	GGAGATGCTG	GGAGGTGGCT	CGAG			394

(2) INFORMATION FOR SEQ ID NO:524:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 600 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:524:

CGATTGAATT	CTAGACCTGA	CCAAAGACCT	TCCGTACAGA	TTGACCGCAG	AATGTCAGGG	60
AAAGTTAGGA.	GAAGAAGTTC	TGAGAAGACT	GACTACAGAT	TGGCTGGCCT	GGCTGACCCA	120
GGAACTTCTG	AGCAGACTGA	CCTCAGATTG	TATGGCCTCG	TTGACCACAA	AACATCTGTA	180
AAGACTCACC	ACCAAGTGTA	CGGCCAAGCC	ACTGAACTAG	CTGAACACCA	GGCTATTGAC	240
CAAGCTCATA	GTAATGCTGA	TCAACCTCCA	GTTGACAATG	CTCACTACAC	TGAATCTGAC	300
CAGACTGACC	ACTTAGCAGA	CAGACAAGCT	AATCATAAAG	ACCAGCTGTC	TTACTATGAA	360
ACACGTGGCC	AGTCTGAAGA	CAGAATATTT	CCCCAGTTAG	GCAACAGCAA	AGAGGACAAA	420
GAGGCTGACT	ACAGAGTACA	ACCCTGCAAA	TTTGAGGATA	GCCAAGTAGA	CCTCAATTCC	480
AAGCCTTCAG	TTGAAATGGA	AACTCAGAAT	GCAACCACTA	TCCCACCCTA	CAACCCAGTT	540
GATGCCAGAT	TCACCAGTAA	ATTCCAAGCA	AAAGACCAAG	CTCTTTTCCC	AAGACTCGAG	600

- (2) INFORMATION FOR SEQ ID NO:525:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 466 base pairs

- (B) TYPE: nucleic acid (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:525:

GAATTCGGCC	TTCATGGCCT	ACTTTCTTCT	GCTGGCTTCC	ATCTTGCCAC	ACTTTCTTGC	60
TCTTCCTTCT	AACTGAAAGA	CTACTTCTCC	ATCCCCTCTG	CAGGCTCTTT	TGCTCCACCT	120
GATATTTAAA	TGTTGGAATG	CCTAGAGTTG	TTCTGACCCT	TCTTTATCTA	CCCCGATTTC	180
CTCAGTGATC	TTATGCAGAG	GTCTCCCAAA	GTTTACATGG	CTATCCTTGA	CCTCCTTCCT	240
GAACTGCAGC	TGGTGTCAGC	TGCCGTCACT	TGGATGTTTA	ATCAGCAACT	CAAGGTTTAC	300
GTGATGATTA	GACCGCAGTT	ACCCCCAGAC	TTCCTTATCC	CTTAGTTTTC	CCCATCTCAT	360
TAAGTTCACT	TCCATTCACC	TTCTTGATGA	AGCCAAGTAT	TTCAGAACTA	GCCTTGTTTC	420
TTCTTTTTCA	CTTTCCCCCA	TATCAATTCC	AGACTACCCA	CTCGAG		466

- (2) INFORMATION FOR SEQ ID NO:526:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 559 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:526:

GAATTCGGCC	TTCATGGCCT	ACATTGTAGA	AGAGATCACA	GAAACCACAA	AAGGTTTTCT	60
GAAGTATATG	GATAATCAAT	CATTTGCAAC	TGAAAGTCAG	GAAGGAGTTG	GTTTGGGACA	120
TTCACCTTCA	TCCTATGTGA	ATACTAAGGA	AATGCTAACC	ACCAATCCAA	AGACTGAGAA	180
ATTTGAAGCA	GACACAGACC	ACAGGACAAC	TTCTTTTCCT	GGTGCTGAGT	CCACAGCAGG	240
CAGTGAGCCT	GGAAGCCTCA	CCCCTGATAA	GGAGAAGCCT	TCGCAGATGA	CAGCTGATAA	300
CACCCAGGCT	GCTGCCACCA	AGCAACCACT	CGAAACTTCC	GAGTACACCC	TGAGTGTTGA	360
GCCAGAAACT	GATAGTCTGC	TGGGAGCCCC	AGAAGTCACA	GTGAGTGTCA	GCACAGCTGT	420
TCCAGCTGCC	TCTGCCTTAA	GTGATGAGTG	GGATGACACC	AAATTAGAGA	GTGTAAGCCG	480
GATAAGGACC	CCCAAGCTTG	GAGACAATGA	AGAGACTCAG	GTGAGAACGG	AGATGTCTCA	540
GACAGCACAA	GGCCTCGAG					559

- (2) INFORMATION FOR SEQ ID NO:527:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 318 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:527:

GAATTCGGCC	TTCATGGCCT	ACGCAGTGGT	TCAATTTTCT	TCGAAACGGT	GTGGTCCCTG	60
CAAAAGGATG	TTTCCTGTTT	TCCATGAGCT	GGCTGAAACT	TGTCACATCA	AAACAATACC	120
CACATTTCAG	ATGTTCAAGA	AAAGCCAGAA	GGTAACCCTA	TTCTCAAGAA	TCAAAAGAAT	180
AATTTGCTGT	TATAGAAGTG	GATTCATGAG	CAACCTGATT	TTTGAGTTTT	GTGGAGCCGA	240
TGCTAAAAAA	TTGGAAGCCA	AGACTCAAGA	ATTAATGTAA	GCTGATCTCC	AAGGCAAAAT	300
ACACTTGTGC	CGCTCGAG					318

(2) INFORMATION FOR SEQ ID NO:528:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 276 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:528:

GGCACAGACT	TACCGGACAC	ACAGGTCATG	GGACACAGAG	TCATGGGGCA	CACAGGTTCA	60
CAGGGCACAC	AGGCTCACGG	GACACAGAGT	CATGGGACAC	ACAGGCTCAC	AGGGCACACA	120
GGCTCACAGG	ACACACAGGT	TCATGGGGCA	CAGAGTCATG	GGGCACAGÁC	TCACAGACTC	180
ACAGGTCATA	GACGCTCATG	GGGCGCAGGC	TCACAGGGCA	CACAGACTCA	GGGCACACAG	240
GCTCATGGGG	CACAGAGTCA	TGGGGCAGGG	CTCGAG			276

(2) INFORMATION FOR SEQ ID NO:529:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 180 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:529:

GAATTCGGCC	TTCATGGCCT	ATTCTGTTCT	TTAAATTTGA	ATGAAAGTTT	GGCATTTTAA	60
AAAACTTTAG	GTGATTTAGG	AGTATAATTT	TAAGCAGATT	TTTAGAGTAC	GAGTGTCCAC	120
ATATTTAACT	AAACATTCAA	AAATTAGTTA	AAATCAATGA	ACTTGGGAAG	GATCCTCGAG	180

- (2) INFORMATION FOR SEQ ID NO:530:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 470 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:530:

GGGGACAGAA	GATGTGCTCC	AGGGTCCCTC	TGCTGCTGCC	GCTGCTCCTG	CTACTGGCCC	60
TGGGGCCTGG	GGTGCAGGGC	TGCCCATCCG	GCTGCCAGTG	CAGCCAGCCA	CAGACAGTCT	120
TCTGCACTGC	CCGCCAGGGG	ACCACGGTGC	CCCGAGACGT	GCCACCCGAC	ACGGTGGGGC	180
TGTACGTCTT	TGAGAACGGC	ATCACCATGC	TCGACGCAGG	CAGCTTTGCC	GGCCTGCCGG	240
GCCTGCAGCT	CCTGGACCTG	TCACAGAACC	AGATCGCCAG	CCTGCCCAGC	GGGGTCTTCC	300
AGCCACTCGC	CAACCTCAGC	AACCTGGACC	TGACGGCCAA	CAGGCTGCAT	GAAATCACCA	360
ACGAGACCCA	GGCCCTTCAG	CACCGTTCAC	AGTATTTTGA	AGGTGTTGTG	AAGTGCAATA	420
AGCTGGAAAT	ACTGGAGACC	ATCGTGGACA	GAATAGTAAG	AGCCCTCGAG		470

- (2) INFORMATION FOR SEQ ID NO:531:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 553 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:531:

GAATTCGGCC	TTCATGGCCT	AGAAAATTCC	AGAAAGGATA	TTTAAGAAAA	TACAATAAAC	60
TATTGGAAAG	TACTCCCCTA	ACCTCTTTTC	TGCATCATCT	GTAGATACTA	GCTATCTAGG	120
TGGAGTTGAA	AGAGTTAAGA	ATGTCGATTA	AAATCACTCT	CAGTGCTTCN	TACTATTAAG	180
CAGTAAAAAC	TGTTCTCTAT	TAGACTTTAG	AAATAAATGT	ACCTGATGTA	CCTGATGCTA	240
TGGTCAGGTT	ATACTCCTCC	TCCCCCAGCT	ATCTATATGG	AATTGCTTAC	CAAAGGATAG	300
TGCGATGTTT	CAGGAGGCTG	GAGGAAGGGG	GGTTGCAGTG	GAGAGGGACA	GCCCACTGAG	360
AAGTCAAACA	TTTCAAAGTT	TGGATTGTAT	CAAGTGGCAT	GTGCTGTGAC	CATTTATAAT	420
GTTAGTAGAA	ATTTTACAAT	AGGTGCTTAT	TCTCAAAGCA	GGAATTGGTG	GCAGATTTTA	480
CAAAAGATGT	ATCCTTCCAA	TTTGGAATCT	TCTCTTTGAC	AATTCCTAGA	TAAAAAGATG	540
GCCTTTGCTC	GAG					553

- (2) INFORMATION FOR SEQ ID NO:532:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 843 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:532:

GAATTCGGCC	AGAGAGGCCT	ACTTCTCTTA	GTGATTTCAT	GTTTCAACCA	GTACATTGTG	60
GTGAATACTG	AAATATCTTG	TTTAATTCAG	ATAATTAAAA	TGGTGGCAAA	GGAAGCTGTT	120
TAGCCAGAGC	CCTTCTTGAC	TTTGAGGAAC	AGTGGTAGTA	TAAGACTTGA	AGACAGACGT	180
GTAAAAAGTA	CTACTCACTG	GTAGGCTCAG	GTCTGGTTGA	TTGACTGATT	CTTGAGACGG	240
AATGTCGCTC	TGTCGCCTAG	GCAGGAGTGC	AGTGGCCCAG	TCTCGGCTCA	CTGCAGCCTC	300
CGTCTCCGGG	TCCAAGCGAT	TCTCCTGCCT	CAGCCTCCCG	AGTAGCTGGG	ACTACAGGCG	360
CCCGCCACCA	CACCGGGCTA	ATTTTTGTAT	TTTTAGTAGA	GACGGAGTTT	CACAATATTG	420
GTCTCGAACT	CCTGACCTCA	GGTGATCCAC	TCGCCTGGCC	CACCCAAAGT	GCTGGGATTA	480
CAGGGATGAG	CCCCTGCGCC	TGGCCTCGGT	TGAATTTATT	AAACAACTTT	TGTGGGCAGC	540
AAGCTGTACG	AGGTTAACTA	TGTGATGAGA	AGACTTAGAA	ATGGAGAAAA	GTTTTATCAG	€00
TTCTACATAG	GACTTAGTTT	GGGAGTTTCT	GGAAACTACG	TTGGAAATCA	GTAGTTGCAC	660
ACTAGCTGAA	TTCAGCTGTG	TAATTTACAG	TGATTTGTTA	TTTACCAAAT	AAGTAGAAGA	720
GGGAATTAAG	AAGCTAAAAT	CTCTGGGTAC	TTGTTTGATA	TGAATTTGTT	AATTGTTTAT	780
ACTCAGGTAA	TAAGTGTTAC	CTCAGTCATA	GCATTTAATA	TTTTATCTGA	CTGTCCTCTC	840
GAG				•		843

- (2) INFORMATION FOR SEQ ID NO:533:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 525 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:533:

GAATTCGGCC	AAAGAGGCCT	ACATCCAGAA	ATTTAGGGAC	TCAGCCCTGG	TCAGGGTGGC	60			
AAAGGGTCTG	TTTGTCTTTC	CCCATTAGAC	AGAGGTCTTG	TCCTGCTACC	CTAATTGTAA	120			
AGGGGTGCCT	GGGAAGGGGT	GGTAGGGACA	TGGTGGCGGT	GGAGACTCCG	GCCCCACTTC	180			
TCCAGGCTTT	GCTGACAGGG	GCCTGCTTTT	AATTTTTATT	TTTATTCCAT	GACTTTTTAA	240			
AAAAGAATCC	CGTAACTTCT	TTTTCATAAC	TTTTTTTGTA	ACTTTTCATA	ATACTGTTTT	300			
CTACTTTGTT	CCCACAAGTT	TTTTTGCCAC	AACGTTTTTA	CATTTTTTAT	CCCATAACTT	360			
TTTCACCCCA	TAACTTTTTT	AAATAAAGTT	ATTTAATAAA	ATAACTTTTT	ATAAAACTTT	420			
AATAAAAGTT	TTTTAATTAA	CCCATAACTT	TTTTATTTTG	GTTTTTAATA	AACACTTGCA	480			
TAGTTATATT	ACAACTTTGT	AAAAATGAAA	CACATTATCT	CAGGC		525			
(2) INFORMA	ATION FOR SE	EQ ID NO:534	1 :						
(i)	SEQUENCE CH	ARACTERISTI	CS:						
	(A) LENG	TH: 268 base	e pairs						
	(B) TYPE	: nucleic a	cid						
	(C) STRANDEDNESS: double								

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:534:

(D) TOPOLOGY: linear

GAATTCGGCC	AAAGAGGCCT	AGAAAACCCT	TGAAGACATG	TTGAAAATAC	ATACTCCTGT	60
TAGCCAAGAA	GAAAGATTGA	TTTTCTTAGA	CTCCATTAAG	TCCAAATCCA	AAGACTCTGT	120
GTGGGAAAAA	GAAATAGAAA	TACTTATAGA	GGAAAATGAG	GACCTCAAAC	AACAATGTAT	180
TCAGCTAAAT	GAAGAGATTG	AAAAGCAAAG	GAACACTTTT	TCATTTGCTG	AAAAAAACTT	240
TGAAGTTAAC	TATCAAGAGT	TACAAGAG				268

- (2) INFORMATION FOR SEQ ID NO:535:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 224 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:535:

GGCTTGCACC	TCGGCGATCC	CCGACTCCCT	TCTTTATGGC	GTCGCTCCTG	TGCTGTGGGC	60
CGAAGCTGGC	CGCCTGCGGC	ATCGTCCTCA	GCGCCTGGGG	AGTGATCATG	TTGATAATGC	120
TCGGAATATT	TTTCAATGTC	CATTCCGCTG	TGTTGATTGA	GGACGTTCCC	TTCACGGAGA	180
AAGATTTTGA	GAATGGCCCC	CAGAACATAG	ACATTCCTCT	CGAG		224

- (2) INFORMATION FOR SEQ ID NO:536:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 303 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:536:

GAATTCGGCC	TTCATGGCCT	ACCACTCTGG	CCCCAGCGTC	ACTGGCCTAG	GGACACATGG	60
GGGTGGGGAT	TGTTTGGCCT	TCCTGGCTTA	GGTCTCTGGA	AGAGAGAAGA	ACCCCATGGG	120

GCAGACCCAG GCCACGGGCA GTACATGCCT CCCACACTAC TG GTGAAGCCAC CTTTGAGCAA CGGAAAGGAA GGGGGATGGG CA CCAAAAGCCT GGGGCTGGCC TTCTGCTGGC ATGAGAGGGC CA GAG	AGATCAGT GCAAGGTTGG 240
(2) INFORMATION FOR SEQ ID NO:537:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 350 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53	7:
GAATTCGGCC TTCATGGCCT AGAACAAAAT CTGAAATTCA GA AATATTTTCC ATTTTTTCC CTATTAAATA TGATAATTTC AG TTTTTTTTT TTTCTCCACA GTGCTTTTCA CGGTGGGGAC TA AGGCCAGAAT AACCAAGTAC CTGGAAGTGA ATCTTTGTGG AG TCGAAAGGTG CAAAAGGAAG TCTTCCATCA CTAGCTCAGC TG	GTGCAAAG AGTGTTTTT 120 ATGGATAT AGAGGGTGGG 180 GATAATGAA ATAATTTTAT 240 GTTATGGTC CTTGAACTGC 300
(2) INFORMATION FOR SEQ ID NO:538:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 344 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	•
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53	8:
GAATTCGGCC TTCATGGCCT AGAGTTGCAC AGATGTCTTT TG TCATCCTCAC AGACCGTTAC TCAGATAATT AAGTGCCTTG CA CCTTATGATC GTCTAAAACT CAGCCTGCTG ACCAAAGTCT GG ATTCGCCACA AAGATGTTAA TGTTCGTGTG TCAAGTCTCA CA TCCACCCACG CACCTTTACC TGAAGTCCAA CTACTTCTGC AA CTCGGTAATA GCAATTCAGC AACCCCTCAC CTCAGCCCCT CG	AAATTTAGT ATCAAATGCA 120 SAACCAGAT AAAGCCTTAT 180 ACTCTTGGG AGCTATAGTG 240 ACAGCCATG TTCTTCTGGA 300
(2) INFORMATION FOR SEQ ID NO:539:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 343 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53	9:

60

120

180

240

GAATTCGGCC TTCATGGCCT ACAACTCCAT TAAACCACCA CCAGCTCCCC AAGCCACCCC

TTCAGCCATG AAGTTCCTGC TCCTGGTCTT GGCAGCCCTC GGATTCCTGA CCCAGGTGAT

CCCAGCCAGT GCAGGTGGGT CAAAATGTGT GAGTAACACC CCAGGATACT GCAGGACATG

TTGCCACTGG GGGGAGACAG CATTGTTCAT GTGCAACGCT TCCAGAAAAT GCTGCATCAG

	CTGCCGAAGC CTGACCTACC ACAGCTCATC GGTAACCACT GGCAATCAAG ACACAAAGGA AAGACAAGAA GCAACCCCTC GAG	300 343
(2) INFORMA	ATION FOR SEQ ID NO:540:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 248 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:540:	
CAGCATCTCT TGACCCATCC	TCTGAAGACC TCTCAGCCTC TTATGACCAC TCCTGGCACC CTGTCAAGCA GGTCACTGC CCTATAGCCG TACAGACTAC AGCTGGAAAA CAGCTCTCGC TGAAATACTA GTTCCTCAAA TCTCAACAGA AGGTGGCATC AGCACAGAAA GATTGTGGAT GCTACCACTG GATTGATCCC TTTGACCAGT GTACCCACAA	60 120 180 240 248
(2) INFORMA	TION FOR SEQ ID NO:541:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 433 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:541:	
GTTCTATAAA AAATTAAGGT AGAGTAAAAC GAGAATGAGA GGGGTAGCAG	TCATGGCCTA GATTGTCTTT ATAGGAAATG TCTTTAGCAA AATACTACGG ACCCATTAAC GGGTTATCAG TGTCTAGGAC ATAAATGGCT TCTGGTAAGA CTACTCTCCC TAAATACTAT CATAATTACA AAGGTTAAGA AAAAAGAAGT ACTCCAGTTG TTAAAAATCAA ACATGAGTGG TCACCAAGGTC CTAAGAAGCA ACTCCAGTTG CTTGTTTATC TCTCAGGCTG AGCATGGTTG GTTACAATGA GAAGAGCACA GCCTTGGACT CCAGTCCAAG GAACTCCAGT CTCTCCTGCA GTTTGACCTT GGGCCACTTA CTGTTCCTTT CTCAGCCTC ATTTTCATAT GAG	60 120 180 240 300 360 420 433
(2) INFORMA	ATION FOR SEQ ID NO:542:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 493 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(i i)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:542:	
CTCAGAGCCC TCAATCAGAA TCTGCCAGTT	TTCATGGCCT AGACACGGGA CATAAAAACT TTTAATGAAG GAGGACACAG TTCCACATGC GGCCCAACCC TGCCCCACGG AGACCGGCCA TGGCAACCGC GGTGTTCTTG ATGCGGCCGG CCACCAGCCT AAGGATGTCC CCGATCTTCT GGCGATGTCC TTGGACACGC GCGCCCACGC CTCCCATGC CGAGCCTCTG	60 120 180 240

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ACTTGTAGAA GAAGGCCCAG GCATCCCCCA GGTCCGAGTC AATCTTCACA GTGCGGTGGA

360

60

	GGCCTTGGTG ATCTTCCGCT GACTCCAAAA CAGCTTGGCC ACGGCCAGGA GTCATGCTCA CACTTCTTCA GGGCATCCAC GCTCTTGGTC CTCCTCTGGG GAG	420 480 493
(2) INFORM	ATION FOR SEQ ID NO:543:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:543:	
AGCAAAAAGC CAAACGCAAT TTCTAAGGCC TTTACTAAAA	TTCATGGCCT AGTCAGGGAG AAGGGAAGGT GAGAAGGGGG GGAAAAAAGA CCAAAGAAAA AAACATTTTA TATTCATCTG TATAAACATA TCCGCTAAGG CCGGGTCCGA GGCTGCG CTGGGCTCGG TGCCTCCTAA TTTCTGCAGA AAAAAAAAAAAAA ACCTCTGCAA GTCCGCGTAG CTTCCAGGAC TCCTGGGCAT TAAAGAGTTA TCGAGTTTAA AAAGCAGTGA CGTCGTTATG ACACACACTG AACTGTGGCC TCGAG	60 120 180 240 300 325
(2) INFORMA	ATION FOR SEQ ID NO:544:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 473 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	,	
	(D) TOPOLOGY: linear	
(xi) GAATTCGGCC TGGATGAAGA CTGGGCACTG CCTTTATTTT GGTTGGCTTGT AATCTGGGAT CATAAATTTA	(D) TOPOLOGY: linear MOLECULE TYPE: cDNA	60 120 180 240 300 360 420 473
(xi) GAATTCGGCC TGGATGAAGA CTGGGCACTG CCTTTATTTT GCTGGCTTGAT AATCTGGGAT CATAAATTTA CTGCTGTGCC	(D) TOPOLOGY: linear MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:544: AAAGAGGCCT AAGAATTCCT TATGAAAGTG ATGCTTGAGT CAAAATATGA GAGTTTAAAT AGATTACATA GAATTTTTAA TAATGTCGAT TGGTTATATA ATAGCTGATT TTTCTTTGG GAAAGGTATG TCAGCCTAGT CATTCAGATT TTTAAATGTT TTTCTATTT TTGCTTTGCA TTGCATTCAT TTTGCAGAGG GTGTCATACT TGGTTATTCT CCTTAGGATA TTGGCCCAAC TTGTGAAAGG CGCTTCGCTT TTCAGACCTG GGCGTCTGTA TCATGACTAT GGATTAAGAC ACCTAGCCTC CTACCAGGAT GAATGAGGTG TCCATGTGAC	120 180 240 300 360 420
(xi) GAATTCGGCC TGGATGAAGA CTGGGCACTG CCTTTATTTT GCTGGCTTGT AATCTGGGAT CATAAATTTA CTGCTGTGCC (2) INFORM	(D) TOPOLOGY: linear MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:544: AAAGAGGCCT AAGAATTCCT TATGAAAGTG ATGCTTGAGT CAAAATATGA GAGTTTAAAT AGATTACATA GAATTTTTAA TAATGTCGAT TGGTTATATA ATAGCTGATT TTTCTTTGGG GAAAGGTATG TCAGCCTAGT CATTCAGATT TTTAAATGTT TTTTCATTTT TGGTTTTGCA TTGCATTCAT TTGCTGAAGA ACTTTGGCAG GTGTCATACT TGGTTATTCT CCTTAGGATA TTGCCCCAAC TTGTGAAAGG CGCTTCGCTT TTCAGACCTG GGCGTCTGTA TCATGACTAT GGATTAAGAC ACCTAGCCTC CTACCAGGAT GAATGAGGTG TCCATGTGAC CTGGAATTTT ATACATCTTT CTCTCATAGC ACACGGACTC GAG	120 180 240 300 360 420
(xi) GAATTCGGCC TGGATGAAGA CTGGGCACTG CCTTTATTTT GCTGGCTTGT AATCTGGGAT CATAAATTTA CTGCTGTGCC (2) INFORM	MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ ID NO:544: AAAGAGGCCT AAGAATTCCT TATGAAAGTG ATGCTTGAGT CAAAATATGA GAGTTTAAAT AGATTACATA GAATTTTTAA TAATGTCGAT TGGTTATATA ATAGCTGATT TTTCTTTGGG GAAAGGTATG TCAGCCTAGT CATTCAGATT TTTAAATGTT TTTTCATTTT TTGCTTTGCA TTGCATTCAT TTGCTGAAGA ACTTTGGCAG GTGTCATACT TGGTTATTCT CCTTAGGATA TTGGCCCAAC TTGTGAAAGG CGCTTCGCTT TTCAGACCTG GGCGTCTGTA TCATGACTAT GGATTAAGAC ACCTAGCCTC CTACCAGGAT GAATGAGGTG TCCATGTGAC CTGGAATTTT ATACATCTTT CTCTCATAGC ACACGGACTC GAG ATION FOR SEQ ID NO:545: SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	120 180 240 300 360 420

GAATTCGGCC AAAGAGGCCT AGTCGAGAAG GAAGAGAGAAAAAC TATAAAAGTG TGCTAAATGT TTTATTTCT CTGGAAGAAT AGTTATATTC TACTCTTTGT GGCTCTCGAG

(2) INFORMATION FOR SEQ ID NO:546:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 481 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:546:

GCTAGACCTG	CCCCCTTAGA	AATGGAAAAA	GCATGCAAGA	GAGATGTTAA	AGGAGACTAT	60
TGGAGCAACT	GTGTCCACAC	CCTCTGTGAT	AGAAATGGAA	AAAATATCCC	CAGAAGATCG	120
TGGTGAGAAT	ATTGGGAAAC	ACAAAGTGTT	ACCCGCAGTG	GTAGACATTG	AGAAAATACA	180
TGGAACAGGA	CTAGAATTGA	CCACTAAACA	AGGGGAGGCC	ATGCTTCCTG	CATTTGAAAG	240
TAAAACACCA	CAAGAGTATG	CTGAAGGGAG	TGTTGAAGAA	ACAATGGAAA	ATACTTACCA	300
AAAGGATGCT	GAAGGGGATA	TTGGAAAGGC	TGAAGTGATG	CCTGTGAGGT	TAGAAATGGA	360
AAATACTTAC	CCAAAGGATA	CTGAAAGAGA	CGGTGGCAAA	ACTGAGGTGA	TGCCCCTTGC	420
ATTAGAGGTA	GTAAATACTT	ACCAAAAAAA	TGCCAAAGGT	TTTACCGGGA	ACAATCTCGA	480
G						481

- (2) INFORMATION FOR SEQ ID NO:547:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 405 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:547:

GAATTCGGCC	AAAGAGGCCT	AGAAACCTGA	GGCTGCTGCC	CTTTATCTGC	CTTCACGGTA	60
CTGTCCCCTT	CCCCCAGCTC	CTCCCTGACC	CCATGGGCCA	GGCCTCAGAC	CTTCCAGCTA	120
ACCGCTTCCC	ATGAGCCACT	ACTCTGATGT	CAGCCTATAA	CCAAAGGAGC	TGGGGGGTCC	180
AGGCCTGGTG	ACCAACCTTT	CTCAGCCCAC	TCAATCAGGG	TGCTCCCCAC	CTGCAGGCAG	240
GAGGCAACAC	CCTATCTGCT	ACCATCAGCC	CCTTCCAGAG	CCCATCTGCC	CCGCCCAGCC	300
CTGCCCTGCC	CAGCCATACC	CTGCTCTGCC	CCATCTGGGG	GTGCCCTGCT	CAGGGATGGG	360
CTGGCAGGGC	TGTACCCAGC	CTCCCTGGTA	AGCAAAGAGC	TCGAG		405

- (2) INFORMATION FOR SEQ ID NO:548:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 142 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:548:

GCGATTGAAT	TCTAGACCTG	CCTCCCTGCT	TTCTAATAAA	TCTGACTAAC	CTTAGACATT	60
TTGTATCTTA	CTAAGAACAT	CCCTTCAATA	TCTACTTCAT	TATCCCATGC	CATTTCCCCA	120
CTGTCTCAAC	ACGAATCTCG	AG				142

(2) INFORMATION FOR SEQ ID NO:549:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 296 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:549:	
GAATTCGGCC TTCATGGCCT ACTATGGTAT TGCTAAACAA GGGTGGGAGG AGAGAGAGGT AATCAGGGAG GACTTCCCAC AGGAGGTGGC ATCTGCAGAT GTCTCAAAAA AGAAAAGAAT TAGCCTGGCA AGAGGTGAGG ATTGTGTAGA GGTCACTCAC TTTCCTTGTG GGTGGAGGAA ACCATTCCAG GAGCTGTAGG AAGCTTGGTG CTGGTGAAGG AGGCAGGAGA GGAGAGAAGA GGAGATGACC TTAGAAATCA CATCCAAGAG CCTCTGATCC CAGGAGGCAG CTCGAG	60 120 180 240 296
(2) INFORMATION FOR SEQ ID NO:550:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 254 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:550:	
GCAGGAGAGA AAATTGAGGC TTAGGTTAAG AAACTTACCC AAAGTCAAAC AATTTAATTG GTTTGGGAAG ACCAGGAAGA CTTTAAGTTC CTAAGATCGT TTGAGATTCT GCATCAGGGA ACACTTGACA GCAGGTTAT ACAAAGACAG ATTTGGTATC TTTGAAGGGA ATGAGTTTCC AGTCATTGCA GGTGGTCCAG CAGAGAGGGC CACTCTCCTT TTTTCTTTC TTTACTCCCT TTTTGATTCT CGAG	120 180 240 254
(2) INFORMATION FOR SEQ ID NO:551:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 278 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:551:	
AGGCCATGAA GGCCCTTTCC ATTTCTTTTT GTTCCATCAC TCTTCTCTCA ACCTGTGTTT CTTTTTTTAC TGAGGAGTTA GTCCCCATTA GTTCTTGTAT CACATTTTCA TTTGCACGAC ATTACTCGCA GGTGGTGGGG AGCCTGGGCT TTTGGGGAAC CAGGCTGCTC TGGTCCCCAG CATTGCCTCC TCCTAGCCCC TCTAGTCCAG TTTGCCTCCC TTACCCTCAT TTTCCAAACC TCTTGTACCC TCCTCTCCCT CCCCCAGCTG GCCTCGAG	6 12 18 24 27
(2) INFORMATION FOR SEQ ID NO:552:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 322 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:552:

GAATTCGGCC TT	CATGGCCT ATGCACTTC	r TCTTTCTCTC	CTCCTTTTGC	TGGGTGCTTA	60
CCGAGGCCTG GC	AGTCCTAC CTGGCTGTC	TTGGGCGGAT	GCGCACCCGC	CTCGTTCGCA	120
AGCGCTTCCT CT	GCCTGGGC TGGGGTCTG	CTGCCCTGGT	GGTGGCCGTG	TCTGTTGGCT	180
TTACCCGAAC GA	AAGGATAC GGTACATCC	A GCTACTGCTG	GCTCTCCCTG	GAGGGCGGCC	240
TGCTCTACGC CT	TTGTGGGC CCTGCAGCC	TCATTGTCCT	GGTGAACATG	CTCATCGGAA	300
TCATCGTCTT CA	GCAGCTCG AG				322

- (2) INFORMATION FOR SEQ ID NO:553:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 390 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:553:

GCCAAAATCA AG	GCAAAGTAT GAAGAA	AGAT AAAGAAGG	G AAGAAAAAGG	GAAGCGAAGA	60
GGATTCCCCA G	CATCCTGGG ACCCCC	ACGG AGACCAAN	C GTCATGACAA	CAGTGCAATT	120
GGCAGAGCCA TO	GGAACTACA GAAGGC	GCGC CACCCTAA	C ACTTATCCAC	ACCCTCATCT	180
GTGAGTCCTG AA	ACCTCAGGA CTCTGC	CAAG TTGCGCCA	SA GTGGGTTAGC	AAATGAAGGA	240
ACAGACGCTG GA	ATACCTGCC TGCCAA	TTCC ATGTCTTCT	G TAGCTTCAGG	GGCCTCTTTT	300
TCCCAGGAAG GA	AGGGAAAGA GAATGA	TACA GGATCAAAI	IC AAGTTGGAGA	AACATCAGCA	360
CCTGGAGACA CC	CTTAGATGT CACCCT	CGAG			390

- (2) INFORMATION FOR SEQ ID NO:554:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 306 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:554:

GACGGCTACA	CCATGGGCCG	GCTGCTGCGG	GCCGCCCGGC	TGCCGCCGCT	GCTTTCGCCG	60
CTGCTGCTTC	TGCTGGTTGG	GGGAGCGTTC	CTGGGTGCCT	GTGTGGCTGG	GTCTGATGAG	120
CCTGGCCCAG	AGGGCCTCAC	CTCCACCTCC	CTGCTAGACC	TCCTGCTGCC	CACTGGCTTG	180
GAGCCACTGG	ACTCAGAGGA	GCCTAGTGAG	ACCATGGGCC	TGGGAGCTGG	GCTGGGAGCC	240
CCTGGCTCAG	GCTTCCCCAG	CGAAGAGAAT	GAAGAGTCTC	GGATTCTGCA	GCCACCACCA	300
CTCGAG						306

- (2) INFORMATION FOR SEQ ID NO:555:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 327 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: CDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:555:

GAATTCGGCC	TTCATGGCCT	ACCCTCTCAC	GCCACCCCCG	CCCCCACCGG	GCTGCAGGTG	60
CTGCTGATGC	GCTGGGATCT	GATTGAGGAT	AAAAAGGAAG	GAGAGATGAC	CCCTACCCCC	120
TCATCCCCCA	GTTTTGAAAA	GGTCTAAGCA	AGTGAGTCTG	GTGGAGGAGC	TGAGGGAGGG	180
AGCCATGGAA	GGTGCCAGAA	${\tt GGAAGGTTGG}$	CGGGGGCACG	TGTGGGCCGT	GGCTTGGGCT	240
GGTCAGAGTG	GCGTGAGCTG	CCCGGCGCCT	GCCCTGCCCA	AGTGACCAGG	GAAGTGTGTG	300
TGTGTCCATG	TGTATGCGTG	GCTCGAG				327

- (2) INFORMATION FOR SEQ ID NO:556:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 272 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:556:

GAATTCGGCC	TTCATGGCCT	AGAGAAGGAG	CCAGCTGGGG	CCGAATCCAT	CCGCTTGAAC	60
ACCAAAGAAG	ACAAAAATGG	TGTCCCCGAC	TTAGTGGCCC	TGCTGGCTGT	GAGAGACACC	120
CCGGACGAGG	AGCCGGTGGA	CAGCGACACT	TCGGAGAGCG	ACTCGCAGGA	AAGTGGGGAC	180
CAAGAAACAG	AGGAGTTGGA	TAATCCTGAG	TTCGTGGCCA	TTGTGGCCTA	TACCGACCCG	240
TCGGACCCCT	GGGCCCGGAA	GGAGAACTCG	AG			272

- (2) INFORMATION FOR SEQ ID NO:557:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 280 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:557:

GAATTCGGCC	TTCATGGCCT	ATTTCCGATC	TATGTATCTG	TACTCATACA	GCCTCATCGG	60
GCTAAACAGC	CTTCTTTTCA	GAACAGTAGA	TCACTCAACT	GGGTTTTCAA	GTGACTGTTT	120
ACCTTTCAAG	GCTGGCTTTA	TAGGTCTTGC	CTCACTGTAT	CCAGCAATCC	AAACTTTACC	180
CTATCCCAGT	CAGGACTGCA	CACCTCATAT	TGAAAGACAT	ACCTTAGAAC	CAGACTCCCC	240
AAACCTTACA	AATATCCCAC	CCTTGACTCC	CGTTCTCGAG			280

- (2) INFORMATION FOR SEQ ID NO:558:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 474 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

 Π

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:558:

GCAATGGTCT CCAGGATGGT CTCTACCATG CTATCTGGCC TACTGTTTTG GCTGGCATCT

WO 98/45437 PCT/US98/06956_

GGATGGACTC	CAGCATTTGC	TTACAGCCCC	CGGACCCCTG	ACCGGGTCTC	AGAAGCAGAT	120
ATCCAGAGGC	TGCTTCATGG	TGTTATGGAG	CAATTGGGCA	TTGCCAGGCC	CCGAGTGGAA	180
TATCCAGCTC	ACCAGGCCAT	GAATCTTGTG	GGCCCCCAGA	GCATTGAAGG	TGGAGCTCAT	240
GAAGGACTTC	AGCATTTGGG	TCCTTTTGGC	AACATCCCCA	ACATCGTGGC	AGAGTTGACT	300
GGAGACAACA	TTCCTAAGGA	CTTTAGTGAG	GATCAGGGGT	ACCCAGACCC	TCCAAATCCC	360
TGTCCTGTTG	GAAAAACAGC	AGATGATGGA	TGTCTAGAAA	ACACCCCTGA	CACTGCAGAG	420
TTCAGTCGAG	AGTTCCAGTT	GCACCAGCAT	CTCTTTGATC	CGGAAACACT	CGAG	474

- (2) INFORMATION FOR SEQ ID NO:559:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 290 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:559:

GAATTCGGCC	TTCATGGCCT	AATTTTTTTG	TTGTTGTTTC	CTTTTTGTAT	TTTACTGATA	60
TCACCAGGAT	AGTTTACTCT	CCTTCTAGCT	TTCTGCTTAC	CGCACACTGG	ATAACACACA	120
CATACACACC	CACAAAAATG	CTCATGAACC	CAATCCGGAG	AAGGTTCCAG	CAGGTCCCCC	180
ACCCTCCCCT	CCTCCTCCTA	CTTCTCCTCT	TGACAGCGAG	GACAGGAGGG	GGACAAGGGG	240
ACACCTGGGC	AGACCCGCCG	GCTCTCCCCC	CACCCCACCC	CGTCCTCGAG		290

- (2) INFORMATION FOR SEQ ID NO:560:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 361 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:560:

GTGTATGTGG	GGGGTAAGTG	TGTGTGTGTG	CGTGTGCGTG	TATGTGCACG	TGTTGTGTGT	60
GTGCGCCTGC	ACACGGAGAG	CCCACTCATA	CGTAGCAGAA	AATCAAATGG	CCCCAAATCA	120
GAAACATGGC	GCATGTGAGC	ATGCCACTTC	TTGTGTGCCT	GTGACTGTTC	AGAATGTACA	180
CGGCCCTGCA	GCTCCCGAAG	GCCAGCTCTG	CTGCAACCCC	TCCTCTGTCC	AACACAGTCC	240
TCACTGGTGT	CTTTTCCTCT	TCAAATCTAC	AGCATTTCTG	ATCTCTGCAA	ACAATTTAAC	300
CCAAAACCAA	GTTCTGGCTG	ACAAGGCTAC	ATCTTGTTTC	TTGTGCGTGA	TTAGCCTCGA	360
G						361

- (2) INFORMATION FOR SEQ ID NO:561:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 381 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:561:

GGCCCGAGGC CGGGC	TGCCT GGTTTTATTT	TTATTTAACT	TTATTTTCTG	TTTTATGAGT	120	
GTGTGTCCGC CCACC	CCCAC CCCCTTCAGT	GTTAAGTGGG	GAGCCCTGGG	GGAGTCTCTC	180	
CTGCCTCCCA GCCTC	TCCCA AGACCTCCCC	CCTCGTCACC	AGCCATCCCT	CTGGACCAGG	240	
CAGAGGGCGG ACCGG	GTGGG CAGGGGCCTG	AGGGTGGCTC	GGGCCAGCCC	ACCAGCCAAT	300	
GGACCCCTCC TCAGG	CCGCC AGTGTCGCCC	TGCCCCTTTT	TAAAACAAAA	TGCCCTCGTT	360	
TGTAAACCCT TAACG	CTCGA G				381	
(2) INFORMATION	FOR SEQ ID NO:56	2:				
(i) SEQUE	NCE CHARACTERIST	ICS:				
	LENGTH: 317 bas	•				
(B) TYPE: nucleic acid						

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:562:

GCACTCATAA	AAATCTTACT	CAGAAATCTT	CAGAGGTTTG	CTAAGGATAC	AATTTGATTC	60
TTACACATTT	AATGCTCACC	AGCTGCTTAG	GCCCACACCA	TTTATCCACC	CTGATTTGCT	120
ACTGCTCTTT	GAAATACAAC	CAGTGTTTCA	GCCAGACTGT	TTTCCTGCTT	CTGCTCCCCT	180
TCTCCTCCTC	CCAGCACATC	TGTGAATTCT	TTGACTGGTT	TACCACTCCC	ACACTCCTCC	240
CCAGCAATGC	AGATCTTCTA	CACCCTTTAG	GATCTAAGCT	AAGTCTGCTT	CCCAGATATC	300
CTCCCGAACA	GCTCGAG				•	317

- (2) INFORMATION FOR SEQ ID NO:563:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 472 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:563:

GAATTCGGGC	TTCATGGCCT	ACTTTAATGA	GATAGGAACT	AGTATATTCA	CCGTCTATGA	60
GGCCGCCTCA	CAGGAAGGCT	GGGTGTTCCT	CATGTACAGA	GCAATTGACA	GCTTTCCCCG	120
TTGGCGTTCC	TACTTCTATT	TCATCACTCT	CATTTTCTTC	CTCGCCTGGC	TTGTGAAGAA	180
CGTGTTTATT	GCTGTTATCA	TTGAAACATT	TGCAGAAATC	AGAGTACAGT	TTCAACAAAT	240
GTGGGGATCG	AGAAGCAGCA	CTACCTCAAC	AGCCACCACC	CAGATGTTTC	ATGAAGATGC	300
TGCTGGAGGT	TGGCAGCTGG	TAGCTGTGGA	TGTCAACAAG	CCCCAGGGAC	GCGCCCCAGC	360
CTGCCTCCAG	AAAATGATGC	GGTCATCCGT	TTTCCACATG	TTCATCCTGA	GCATGGTGAC	420
CGTGGACGTG	ATCGTGGCGG	CTAGCAACTA	CTACAAAGAA	GAAAACCTCG	AG	472

- (2) INFORMATION FOR SEQ ID NO:564:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 411 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:564:

GCCGCGATGT	TCCCCCTTCG GGCCC	TGTGG TTGGTCTGGG	CGCTTCTAGG	AGTGGCCGGA	60
TCATGCCCGG	AGCCGTGCGC CTGCG	TGGAC AAGTACGCTC	ACCAGTTCGC	GGACTGCGCT	120
TACAAAGAGT	TGCGTGAGGT GCCGG	AAGGA CTGCCTGCCA	ACGTGACGAC	GCTTAGTCTG	180
TCCGCGAACA	AGATCACTGT GCTGC	GGCGC GGGGCCTTCG	CCGACGTCAC	ACAGGTCACG	240
TCGCTGTGGC	TGGCGCACAA TGAGG	TGCGC ACCGTGGAGC	CAGGCGCACT	GGCCGTGCTG	300
AGTCAGCTCA	AGAACCTCGA TCTGA	GCCAC AACTTCATAT	CCAGCTTTCC	GTGGAGCGAC	360
CTGCGCAACC	TGAGCGCGCT GCAGC	IGCTC AAAATGAACC	ACCACCTCGA	G	411
(2) INFORMA	TION FOR SEQ ID 1	NO:565:			
(i)	SEQUENCE CHARACTE (A) LENGTH: 27 (B) TYPE: nucl (C) STRANDEDNE (D) TOPOLOGY:	0 base pairs eic acid SS: double			
(ii)	MOLECULE TYPE: 0	:DNA			
(xi)	SEQUENCE DESCRIE	TION: SEQ ID NO	:565:		
ar amar ar ra					
	CCTCAGACTT TCAAAG CTTTTTGCAG TTTTTG				60
	TGGTTGGTAT CTCCA				120 180
	CCTTTGCAGG GACATO				
	AAAGACAAAA ACCAC		L	INCOMMENT	270
(2) INFORMA	TION FOR SEQ ID I	NO:566:			
(i)	SEQUENCE CHARACTE (A) LENGTH: 27 (B) TYPE: nucl (C) STRANDEDNE (D) TOPOLOGY:	2 base pairs eic acid SS: double			
(ii)	MOLECULE TYPE: 0	:DNA			

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:566:

GTTCCTGTTG ACTAACGGCT	CATCTTTTCC	TTGTTTTTGT	TTTTTTTTG	TTCTTTTTTT	60
CCATGTCACT AAAGGCCAAA	ACTGGAACCA	AGGATTTAAT	AACTATTATG	ATCAAGGATA	120
TGGAAATTAC AATAGTGCCT	ATGGTGGTGA	TCAAAACTAT	AGTGGCTATG	GCGGATATGA	180
TTATACTGGG TATAACTATG	GGAACTATGG	ATATGGACAG	GGATATGCAG	ACTACAGTGG	240
CCAACAGAGC ACTTATGGCA	AGGCATCTCG	AG			272

- (2) INFORMATION FOR SEQ ID NO:567:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 306 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:567:

GCAATGGCAG	GAATTCGAAA	TATTGGCATA	TGGTTCTTTT	GGATTAGATT	ATATAAAATC	60
AGAAGAGGTA	GAACCAGGCC	CCAAGCACTC	CTTTTTCTCT	GCATGATACT	TCTGCTTATT	120
GTCCTTCACA	CTAGCTACAT	GATTTATAGT	CTTGCTCCCC	AATATGTTAT	GTATGGAAGC	180

CAAAATTACT TAATAGAGAC TAATATAACT TCTGATAATC ATAAAGGCAA TTCAACCCTT

240

TCTGTGCCAA AGAGATGTGA TGCAGAAGCT CCTGAAGATC AGTGTACTGT TACCCGGACG CTCGAG	300
(2) INFORMATION FOR SEQ ID NO:568:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 253 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:568:	
GGTGTTTGGC CACAGTTCGG GACCTATGGT AGAAAAATAC TCAGTAGCTA CCCAGATTGT AATGGGTGGC GTTACTGGCT GGTGTGCAGG ATTTCTGTTC CAGAAAGTTG GAAAACTTGC AGCAACTGCA GTAGGTGGTG GCTTTCTTCT TCTTCAGATT GCTAGTCATA GTGGCTATGT GCAGATTGAC TGGAAGAGAG TTGAAAAAAGA TGTAAATAAA GCAAAAAAGAC AGATTAAGAA ACGAGCTCTC GAG	60 120 180 240 253
(2) INFORMATION FOR SEQ ID NO:569:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 544 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:569:	
CACAGTGCTG GCTCACAACA AGATGCTCAA GGTGTCAGCC GTACTGTGTG TGTGTGCAGC CGCTTGGTGC AGTCAGTCT TCGCAGCTGC CGCGGGTG GCTGCAGCCG GGGGGCGGTC GGACGGGGGTG NATTTTCTGG ATGATAAACA ATGGCTCACC ACAATCTCTC AGTATGACAA GGAAGTCGGA CAGTGGAACA AATCCCGAGC TAAGGATTAT TTCCGCACTT GGAGTCCAGG AAAACCCTTC GATCAGGCTT TAGATCCAGC TAAGGATCCA TGCTTAAAGA TGAAATGTAG TCGCCATAAA GTATGCATTG CTCAAGATTC TCAGACTGCA GTCTGCATTA GTCACCGGAG GCTTACACAC AGGATGAAAG AAGCAGGAGT AGACCATAGG CAGTGGAGGG GTCCCATATT ATCCACCTGC AAGCAGTGCC CAGTGGTCTA TCCCAGCCCT GTTTGTGGTT CAGATGGTCA TACCTACTCT TTTCAGTGCA AACTAGAATA TCAGGCATGT GTCTTAGGAA AACAGAATCT CGAG	60 120 180 240 300 360 420 480 540
(2) INFORMATION FOR SEQ ID NO:570:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 330 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:570:	
GAATTCGGCC TCATGGCCTA CATTAAAGAA AAGCTTCCCA CACATCCATT TGAAGCTGAT CTCCTTGAGA TGGCAGAAAT GATTGCAGAA GATGAAGAGA AGAAGACTCT ATCTCAGGGA	60 120

GAGTCCCAAA CTTCTGAACA CGAACTCTTT CTAGACACCA AGATATTTGA AAAAGACCAA GGAAGTACAT ACAGTGGTGA TCTTGAATCA GAGGCAGTAT CTACTCCACA TAGCTGGGAG GAAGAGCTGA ATCACTATGC CTTAAAGTCA AATGCTGTGC AAGAGGCTGA TTCAGAATTG AAGCAGTTCT CAAAAAGGGGA AACCCTCGAG	180 240 300 330
(2) INFORMATION FOR SEQ ID NO:571:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:571:	
GAATTCGGCC TTCATGGCCT AAGGGAAAAC ATTTTGCATG TGTAAAGCTT CATGAAGTTC TCTTTAAAAA ATACCAAAGC TTGTTTATTT CTGATAATTA ACCTAAGCCC TTATGAAAAT AAACAAAATG AAGGGATTAT GACAGGTATT ACCAAAAAACA CCAAAAGGAA CAAAGGGGCC TGCGTTAAAA CCTAATTGCT AATGCTTCAC AACTAGGAGA GCATGCCGTC TTGATGTTTA AAAAACCCAG GGTCTCCACC CTTCCTTTGA TTTGTGCAAT TCTGTCTTCC ACAGTTCCGG AGCTTACTCG AG	60 120 180 240 300 312
(2) INFORMATION FOR SEQ ID NO:572:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 391 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:572;	
GAAAATGTTC ATGGCCGCAG CAGGAGTAGA GGTCCTGAGC CTCCTATTTT TCTGCATCTA CTGGGGTCAA TATGGCCACCG ATGGCATTGG CAACGAGAGT GTGAAGATCT TGGCCAAGCT GCTCTTCTCC TCCAGGCTTCC TCATCTTCCT GCTGATGCTT ATCCTCCTG GGAAGGGATT CAGGGTGACA CGGGGCCGCA TCAGCCACGC GGGCTCCGTG AAGTTGTCT TCTACATGAC CCTGTACACG CTCACCCATG TGGTGCTGCT CATCTACGAG GCGGAATTCT TTGACCCAGG CCAGGTACTG TACACGTATG AGTCGCCGGC CGGCTACGGG CTCATTGGAC TGCAGGTGGC GGCCTACGTG TGGTTCTGCT ATGCTCTCGA G	60 120 180 240 300 360 391
(2) INFORMATION FOR SEQ ID NO:573:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 377 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:573:	
GAATTCGGCT TCATGGCCTA AAAAAAACTC CAGAAAAAAA CAACAGCGCG GTGGTGGGGT TTTGTTAATT TCGCCTTTTT TTTTTTTTGC ACGCGCCACG AAATTCAGGC TGCGTTTAGC TCCTGAGAAA TATCCAAAGT AATTGCAGAT TGCGGAGACG CACAGCATTA GTTCAAAAAA	60 120 180

GACCCGAGGC ATTGGGGCAG GGTTAGGTGG AGGGCACCGG AGGCTCTACA CAAGAAAAGC AGGAACCTTC AAACCCACGT AGATTTCCAC TACAACCTTC CCTTTTCTTC TGGCTAGCCA TCCAGGGCAC TCCATGGCAC TGCATGGCAC AAGTTGCTTC TGATAGTCTT TTAAGTTTGC TAAGGGAACT CCTCGAG	240 300 360 377
(2) INFORMATION FOR SEQ ID NO:574:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 325 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:574:	
GAATTCGGCC TTCATGGCCT ACAGCCTCAA GTCACTCCCA AGCCCCTCC TTGTCTGTGC ATCCGGGGGC AGCTCTGGAG GGGGTTTGCT GGGGAACTGG CGCCATCGCC GGGACTCCAG AACCGCAGAA GCCTCCCCAG CTCACCCCTG GAGGACGGCC GGCTCTCTAT AGCACCAGGG CTCACGTGGG AACCCCCCTC CCACCCTCGC GAGTCTGTT CCAAAGAGGA GAAGGAGCAG AACTATGACT TAACTGAAGT CTCAGAGAGC ATGAAAGCTT TCATATCCAA AGTCTCAACC CACAAGGGGAG CAGAGCTGCC TCGAG	60 120 180 240 300 325
(2) INFORMATION FOR SEQ ID NO:575:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 438 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:575:	
GAATTCGGCC TTCATGGCCT ACTCAGCCTC CCTAATAGCT GGGATTACAA GCGTGAGCCA CCACACCCCG CTGGGAAATA TCTTAAAAGA ATCAAAATAA GAAAGTTACT CTACTTAAAT CGTGTGCTTT TTCTGTGTGT GATTTATGGT AATCTTACCA TGGGGTATCT GATTACTTA GAAAGATCCA TTTAGCTTAT TTTTTCTTC TTTGGGTTAT TTTTTTCTTC CTCCATTTG CACAGCCTCC CCCCAAATAA AAAATAAAGA TATAAAGTCT ATCTTCTCC TCTTGCAGT TTAAGTAAAA AGAACTTTTG CTTCCATTTT AATAATAGAA TTTGTGTGTA TATAATATAG GCAGTGATTT GGCCTCAAGC TGAGTTTAGA TTTGAAAAGA TGAGAATATT AAAGCTTGTC AGCCAGCCCA CTCTCGAG	60 120 180 240 300 360 420 438
(2) INFORMATION FOR SEQ ID NO:576:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 510 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:576:	
GAATTCGGCC TTCATGGCCT ACTGTNTTCC ATAAAGGCTG TACTAATTTC CATTCTCACC AACAGTTCAC TAGGGTTCCC TTTTCTCCAC ATTGTTGCCA ACATTCTTTA TCTTGTGTTT	60 120

NTTAATAACA GCTATCCTAA CAGGTATGAG GTGATCTCT TCATTGCGGT TTTGATTTGC ATTTCCCTAA CGGTTGGTGA TACTGAGCAT TTTTGATTTGC TCTTTGACTT GAGTCCCTTA TATAGTTTGG ATACTGCTGT GGCCTGAATG TTTGTTCCC CCAAAAATTC GTATAGTAGA CTCTCATCCC TAAGGTCAAC AGCTTTAGGGA AGCGATTAGG TCCTGAGGAC TCTGCCCTCT TGCATAGAACA TAGTGCTCTT ATAAAAGATG CCCGAGGGAG CCTCTTTTGCC CCTCCTGCCA TGTGAGGACA CAGCTAGAAG CTACCATCTG TGAACCAGGA AGCCCCCCC ACCAGACACT GTATCTCGAG	180 240 300 360 420 480 510
(2) INFORMATION FOR SEQ ID NO:577:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:577:	
GAATTCGGCC TTCATGGCCT AAAAAATAAA AATAAAATAT ACAACCAAAG GCAGTATTCA CAGAGGTATT TCTTGGGAAT AAAAGAAGGA ATATAGTCAT TCCTTGGTAT TCTCTTTGGT GTCCAGAGTT ACTTAAAAAT TCTTGGTGTT TATTGCCTTT TAGTCACAGG GATACACCTT TTATTCATTT ATTTATTTAT TTACCAGTCT CATTTAGCAG TAGGAATGCA TCTTAGCATT TTTATACTGC TGCTCAACAC AGTGCTTTCA CTCGAG	60 120 180 240 276
(2) INFORMATION FOR SEQ ID NO:578:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 262 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:578:	
GAATTCGGCC TTCATGGCCT AAATCCTTCC AGATGTCCTG TGAAAATGTT TGAATGCTAC TTGTCTAAAA GTCCACAGAA TCTTAATCAG AGGATGGATG TTTTTTATTT GCAACCAGAA IGCTCTAGTT CTACAGATAG CCCTGTCTGG TATACGTCTA CTTCACTGGA CCGAAACACC ITGGAAAATA TGCTTGTACG GGTTCTTCTA GTAAAAGATA TTTATGATAA AGACAATTAT GAACTGGAGG AAGACACTCG AG	60 120 180 240 262
(2) INFORMATION FOR SEQ ID NO:579:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 439 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:579:

GAATTCGGCC	TTCATGGCCT	AATTTAGGAC	CATTTAAGAG	AGTTTGACTA	AGAAAGAGCT	60
GTTTGAAACC	TCCTGGCTTA	TGTATTTTTA	GGGGTGTGGT	GATCGAGGCT	TTCTCCTCTG	120
AGTAGAGTTT	GTGCATTTGC	AGTATAAGAT	TATCATTATC	AAACATTCCT	א כידיא כיכי כירידידי	180

TCTCCTCAGC	CCCTAAAAAA	ATATGTATAG	TAATGAAGTA	GGAAGATCAT	GTTTATATTT	240
GACTTCACAA	ATTCCTCAGG	CTAAGTTGCT	TTCTACTGGG	GTGTGGCTGG	AGACAAAAAT	300
TACAGGTAAG	ACTTGACTTA	ATTTTTGATA	GGGAGGTTCT	TAAGAGGCTT	TTTCGGAATC	360
ACTCACCTCG	CCCACTTCCA	TGCAGGGATG	TGGTGAGAGC	CCTTCAGTCT	ACTTAGGAAA	420
ACCTGGCACA	TGACTCGAG					439

- (2) INFORMATION FOR SEQ ID NO:580:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 346 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:580:

GAATTCGGCC	TTCATGGCCT	AGATATTCTC	AGGGTCATCA	AGACTCCTGA	GATAGCAAAC	60
TTGGCCTTGC	TTGGCTTTGG	AGATATCTTT	GCCCTGCTGT	TTGACAACCG	CTACCTGTAC	120
ATCATGGACT	TGCGGACAGA	GAGCCTGATT	AGTCGCTGGC	CTCTGCCAGA	GTACAGGAAA	180
TCAAAGAGAG	GCTCAAGCTT	CCTGGCAGGC	GAAGCATCCT	GGCTGAATGG	ACTGGATGGG	240
CACAATGACA	CGGGCTTGGT	CTTTGCCACC	AGCATGCCTG	ACCACAGTAT	TCACCTGGTG	300
TTGTGGAAGG	AGCACGGCTG	ACACCATGAG	CCACCAGCCG	CTCGAG		346

- (2) INFORMATION FOR SEQ ID NO:581:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 740 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:581:

GAATTCGGCC	TTCATGGCCT	AGACCTGCCT	CGAGATTGCC	ATCTTGGTTT	TGGTGGGTTT	60
CGGCCGACTT	CTTTGCCACT	TGCTATTTTA	TTTTCTAGGT	CTTTGTGCCC	CGTATTGTGT	120
GCTGAACTCC	NGTCTCATCC	TGTGACTAAG	ATTGCCTAAC	CTCCTGGGAA	TGCAGCCCAG	180
TAGATCTCAG	CCTTACTTTA	CCTAACCCCT	TTTCAAGATG	GAGTCACTCT	GGTTCAAACA	240
CCTCTGACAT	TCGCAGTGGA	ATCCATTAAA	AGATGTTAAG	GAGATATGAT	TATATTTCTA	300
AATTGTCACT	CCAGCATCCC	CTACGCCAGA	CATTATGCCA	GTCTCTATCC	ATACAGTATC	360
TCATTTAATC	CTCCCGTCAT	TAATCTCATT	TTACCAATGA	GTAAACTTGA	AGCAAATGAG	420
TGACTTTCTC	AAGGCTACCT	ACTTACGCCT	TACCAGGGCC	AGGATTCAAA	CCTAGACTTG	480
TTCAGCGACA	GAACACACAC	TTAACCATCA	CCCACTTAGG	CCATGAAGGC	CGGCCTTCAT	540
GGCCTAAACT.	GCTGTTATTT	TGGATTATAT	GGAGTTATGA	AAATCTAAAT	GTTTTACAAA	600
GTTAAAAAGT	ATTCTTTTTT	TGCTCACTTA	TAACTCAAAA	ATCACTAAAG	TCATTCTGCT	660
AAACATGCCA	CGAAGCCAAG	CTTCTTGCCA	TATGTCTGCA	TAATTTTATT	AAATCACTGC	720
TATTGACGTG	CAACCTCGAG					740

- (2) INFORMATION FOR SEQ ID NO:582:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 491 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:582:

GAATTCGGCT TTCA	ATGGCCT ACAAAGGGG	AGCAAGGCAT	GTCTTACATG	GTGGCAGCAG	60
AGAGAGAGAG CAGG	GAAAAC TGTCATTTAT	AAAACCATCA	GATCAGTTGG	GTTGTGCAAA	120
TGGTGGAGAA GAAA	AACTTCA GGAAGAGTG	ATAGACTGAG	CAGAGAAGAG	GACCAGCTAC	180
	GGAGAG CAGCCAAGC				240
	TTGTCAA GGAAGCAAGG				300
CTCCCAGGAC CCTG	GGCAGC AACGGGTGCT	GGACTGGGCC	ACCTGGCAGC	GTCACATCAA	360
	etcctgg agaatgacaa				420
TCAGCTCAGC AAGA	AGACTGC CACAGTTCGA	TGATGATGCA	GACACCAGAC	AGTAAAAGAA	480
GAAAACTCGA G	•				491

(2) INFORMATION FOR SEQ ID NO:583:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 566 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:583:

GAATTCGGCC	AAAGAGGCCT	AAACAGTCCA	GAGAGGCATA	AATCAGACCC	AGTTCCTAGC	60
TGGCTTGTCC	TTATCAAGTA	AATGGAAAAG	GGGCCAGGCC	AAAGCAGGGC	AAGATGACCT	120
TGGACTTGGG	AGAGACTTGG	ACTCATGCCA	CAATCCTAGG	GTGCCCACTG	GACCATTGCT	180
TTTCTGAGTT	TTGTAGTCAT	TCGGTGTCTG	AAGTAAGGTA	GATTGAAGTG	AGGCCTTCGG	240
TTTCCATCTG	GACCCTTTCT	CTCCTGTTTT	CTTTTTTTCC	GCCTTGTCCT	AGGGATGTTC	300
AATAGCCCAG	AAATGCAAGC	CCTCCTCCAG	CAGATCTCTG	AGAACCCCCA	GCTGATGCAG	360
AATGTGATCT	CAGCACCCTA	CATGCGCAGC	ATGATGCAGA	CGCTTGCCCA	GAACCCCGAC	420
TTTGCTGCTC	AGATGATGGT	GAATGTGCCG	CTCTTCGCGG	GGAACCCCCA	ACTGCAGGAG	480
CAGATCCGCC	TGCAGCTCCC	AGTCTTCCTG	CAGCAGATGC	AGAACCCAGA	GTCACTCTCC	540
ATCCTTACCA	ATCCCCATAC	CTCGAG				566

(2) INFORMATION FOR SEQ ID NO:584:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 482 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:584: -

GAATTCGGCC	TTCATGGCCT	AGTTGAAAAT	GATCATTACA	CAATATATTC	CTAAACATAA	60
ACTGAGTAAA	CTTGAAACAG	CTCACTGTGT	GGAGAGGACC	ATTCCCGTTT	TGCTCACCAG	120
AACTGGAGAT	TCTTCTGCCC	GCCTCCGCGT	CACAGCTGCA	AATTTTATTC	AGGAAATGGC	180
CTTGTTTAAA	GAAGTTAAGT	CTCTCCAAAT	TATTCCATCC	TACCTGGTGC	AGCCATTGAA	240
AGCAAACTCT	TCAGTTCACC	TGGCAATGAG	TCAGATGGGC	CTCCTGGCCC	GGCTGCTGAA	300
AGACCTGGGC	ACTGGCAGCT	CGGGCTTCAC	CATTGACAAC	GTGATGAAGT	TTTCAGTGAG	360
TGCCCTGGAG	CATAGAGTGT	ATGAGGTCCG	CGAGACGGCG	GTTCGAATTA	TTTTGGACAT	420
GTACAGACAG	CACCAGGCTT	CCATCCTGGA	GTACCTTCCT	CCAGACGACA	GCTAATCTCG	480
AG						482

(2) INFORMATION FOR SEQ ID NO:585:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 265 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:585:	
GAATTCGGCC AAAGAGGCCT AATAAAGGTG TGGAAACTTC ATTCATCAT ATCTTCAACA CAAATTGTAG GTAGCCTGTT TTTTAAAACA TTTATTCAAC AAATATTTAG TCCAAGCCAC TATTACTTAC TACCTTCTCT ACTATTGTAT GGACTTTTAA CTATCCTGA CACTATTCAC TATTCTTCCA CATTCTCAT TATTTATACC TATGGTAAAA TTTGCCAGTT TGACCATACA ACTAATACTC ACAGGGACAC TCGAG	60 120 180 240 265
(2) INFORMATION FOR SEQ ID NO:586:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 120 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:586:	
GAATTCGGCC AAAGAGGCCT ACTCGAGTTT GGTGCTTTAT TTAGCAAGTG AGTAAAAATA TTGGAATATT TAAGTATTTG CATAAAAAAT CAAATGGTAG TGTTTTGTAA TCTCTACTGT (2) INFORMATION FOR SEO ID NO:587:	60 120
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 503 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOFOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:587:	
GAATTCGGCC AAAGAGGCCT ACTCGAGTCA GGTCTAGAAT TCAATCGACG GTTTAGGAAA AAGACAATTT AAGAGAAGAA CTAAAGAAAA GAACAGAAAAC TGAGAAGCAG CATATGAACA CAATTAAACA GTTAGAATCA AGAATAGAAG AACTTAATAA AGAAGTTAAA GCTTCCAGAG ATCAACTAAT AGCTCAAGAC GTTACAGCTA AAAATGCAGT TCAGCAGTTA CACAAAGAGA TGGCCCAACG GATGGAACAG GCCAACAAGA AATGTGAACA GGCACGCCAA GAAAAAGAAG CAATGGTAAT GAAATATGTA AGAGGTGAGA AGGAATCTTT AGATCTTCGA GAAAAAACTT AAGGAAGCT TGAGAAAAAC ACTAACAAAA TTAAGCAGCT TTCTCAGGAG AAAGGACGGT TGCACCAGCT GTATGAAACT AAGGAAGGCG AAACGACTAG ACTCACTCTC GAG	60 120 180 240 300 360 420 480 503
(2) INFORMATION FOR SEQ ID NO:588:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 567 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:588:

GCCACTATGG	TACCAAAACC	TCAGTCTTCA	CATAGTCAAA	CTTGGACACA	AACAGCACCT	60
CCCACAAACA	TTCTTATCCT	CATCCCAGCA	TTGGTTACTG	ACCACACACT	CTAGCAGGTC	120
ACTCAAGCGC	TAATGCTGGG	AAGGACCTCT	GAATACTTCT	CTTTGTCTTG	TGCCACACAG	180
CCAGGGTCAC	CAAAGCCTGT	TAATGCTACC	TCCAAAAAAG	GCAAATCTGA	CCCCTCTTCC	240
TCAAAACCCA	GCCACATAGT	AAGTTCAAGG	ATTCAGTCAC	AGGTCTGCCT	TAGTGCACTA	300
GCCCTATAAC	AGTAAACTAT	TCACTTCCCC	TCCAGTCCCT	TGCCCCCTTT	CAAGCAATTT	360
CCTGTACTGC	CAAGGGAATT	ACTTTTCTAA	AATTAGCTAA	GAAACTTTTG	ATGGTATCTT	420
ACTGTCCCAA	AAATAAATTT	TAATTCCTTC	TTTAGCATGG	TATAAAAAGG	ACACAACAGA	480
${\tt GTTTGGTCTA}$	GTGTCCTTTT	AAAGACACTA	GATTTCTCAT	CACCATACCG	CATGTACCCT	540
ATACGACTTA	TCAATTCCCT	ACTCGAG				567

- (2) INFORMATION FOR SEQ ID NO:589:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 138 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:589:

GAATTCGGCC	AAAGAGGCCT	AGGCATGGTG	AGTTTTGATC	TTCTTCCCCT	TCTTTTCTTC	60
CCCTTCTTCT	TTCCTTCTTT	GATCTTCTTC	CCCTTCTTTT	CTTCCCCTTC	CCCTTCTTTT	120
CAATTTCTCC	CACGTCAA					138

- (2) INFORMATION FOR SEQ ID NO:590:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 420 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:590:

GAATTCGGCC	AAAGAGGCCT	AGAGAGAATG	GAAAAGATAA	GGAACAGAAA	CAAACAAATA	60
CCGATAAAGA	AAAAAATAAA	AGAGAAAGGG	AGCTTCTCTG	ACACAGGCTT	GGGTGATGGA	120
AAAATGAAAT	CTGATTCTTT	TGCTCCCAAA	ACTGATTCTG	AGAAGCCTTT	TCGGGGCAGT	180
CAGTCTCCCA	AAAGGTATAA	GCTCCGAGAT	GACTTTGAGA	AGAAGATGGC	TGACTTCCAC	240
AAGGAGGAGA	TGGATGATCA	AGATAAGGAC	AAAGCTAAGG	GAAGAAAGGA	ATCTGAGTTT	300
GATGATGAAC	CCAAATTTAT	GTCTAAAGTC	ATAGGTGCAA	ACAAAAACCA	GGAGGAGGAG	360
AAGTCAGGCA	AATGGGAGGG	CCTGGTATAT	GCACCTCCAG	GAAAGGAAAA	ACCGAGGCAG	420

- (2) INFORMATION FOR SEQ ID NO:591:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 611 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

PCT/US98/06956 WO 98/45437

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:591:

GAATTCGGCC	AAAGAGGCCT	ACATTGCTTT	TCAAATAACT	TAAAATAACA	CGTTATGTGC	60
CATGTGGCTA	CTTTAGTAAT	ATTGCCAAGA	AGAGCACAGT	TTTTACACTA	GTGGCATCTC	120
AGTGAAATTA	ACCAAAGATG	AAGCTTTGGC	TTTGCTGGTG	AGATCAGAGC	CCTCCTGAGC	180
AGGCAGCGCC	ACTCCAGGGT	TCAGACAGGG	CTGCACAGGC	GGCAGAGATA	CAGGGTCTGA	240
GGGCTGAGAC	GCCATGGGGC	CGCTGCTGCT	TATGTGGTTG	GATTGTTTAC	AAGCCTCATT	300
ATTAAAACTG	AAGGCATTTT	TTTTTTTCTG	CTGCCTTTCC	CAAAGTGGTT	AGGTTTGGAA	360
AAGAGATGAT	GATGGTAATA	TTTATTTGTG	CTTTTTAAGC	CATTTCCCCA	AATGGGACTA	420
GCATGCTTGT	TTTCAGTATA	CCGTGGCCTG	CCTCATGATG	GTTTGGAGAT	ACTGTCTGTG	480
GATGTGAGGT	GGGGACTTCA	TTCATTGTCC	TATTTCTATC	TNCACTTTGT	GCCTGGAGAG	540
CTTTCAGGGG	AGGTGGAGGA	GGAGGGTCTG	CCAAGCTACT	GCAACATCTG	TCACCCACTA	600
NACCCAGACC	T					611

- (2) INFORMATION FOR SEQ ID NO:592:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 443 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:592:

GAATTCGGCC	AAAGAGGCCT	AATTGAATTC	TAGACCTGCC	TGAAACCTGT	CCCTCCTAGG	60
AAATTGAATA	GCTTGAGTTA	CGAAGGAACT	GCATGGGACA	GACTGAGTTT	TGTTCCTCTC	120
TTCCCTGGAA	GCTGGATGTC	CTTTACAGCT	TTGCCCAGTA	TGTCATGTGG	CCCCTGAAGT	180
ACATAATCCA	GAGTGGACTG	CCTTTCAGGG	TCCCTCAGCT	GTGAAAGTGG	AGCATTCATA	240
TCAAGACTAC	ATCTTTCCTG	TTCAGCTTTC	TTCAGCCTTG	GAGGAACCAC	ACACAATGGA	300
TCCAAGACTT	CTGTCCCTTG	CTAATTATCT	ATAAGAAGTA	AACCCATTTC	ACATAACTTG	360
TGAATATGTT	TTCTTTCACT	GGATTTTGGC	AAATAGGTAC	CCAGTGCATG	GTGGACCTAC	420
ACAGTTAGGC	CTCTTTGGCC	GAA				443

- (2) INFORMATION FOR SEQ ID NO:593:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 441 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:593:

GAATTCGGCC	AAAGAGGCCT	AAAAGCATTC	AGTATTGGTA	AAATGAGTAC	AGCTAANCGA	60
ACTTTAAGTN	AAAAGGAGCA	GGAAGAATTA	AAGAAAAAGG	AGGATGAAAA	GGCAGCTGCT	120
GAGATTTATG	AGGAGTTTCT	TGCTGCTTTT	GAAGGAAGTG	ATGGTAATAA	AGTGAAAACA	180
TTTGTGCGAG	GGGGTGTTGT	TAATGCAGCT	AAAGAAGAAC	ATGAAACAGA	TGAAAAAAGA	240
GGTAAAATCT	ATAAGCCATC	TTCAAGATTT	GCAGATCAAA	AAAATCCTCC	AAATCAGTCT	300
TCCAATGAAA	GACCACCATC	TCTTCTTGTG	ATAGAAACCA	AAAAACCTCC	ACTTAAAAAA	360
GGAGAGAAAG	AAAAGAAAAA	AAGCAATTTG	GAACTCTTCA	AAGAAGAATT	AAAGCAAATT	420
CAAGAGGAAC	GTCGACTCGA	G				441

(2) INFORMATION FOR SEQ ID NO:594:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 562 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:594:

GAATTCGGCC AAAGAGGCCT	AAGAAAACCT	AGCTAATAAA	GAAAAAGCTG	TTGCTCAAAT	60
GAAGATAATG ATCTCAGAGT	GTGAATCATC	TGTGAACCAG	CTGAAAGAAA	CATTGGTTAA	120
TCGAGATCGT GAGATAAACA	GCCTCCGGCG	CCAGCTTGAT	GCAGCTCACA	AAGAACTCGA	180
TGAAGTAGGA AGATCTAGAG	AAATCGCTTT	TAAGGAAAAC	AGAAGACTGC	AAGATGACCT	240
GGCTACAATG GCAAGAGAAA	ATCAAGAAAT	CTCATTGGAA	TTGGAAGCAG	CAGTGCAAGA	300
AAAAGAAGAA ATGAAGAGCA	GAGTTCATAA	ATACATAACA	GAGGTGTCAC	GATGGGAGAG	360
CTTAATGGCT GCCAAGGAAA	AAGAAAATCA	AGATTTGTTA	GATAGATTTC	AGATGCTTCA	420
TAACCGTGCT GAAGACTGGG	AGGTCAAAGC	CCATCAAGCT	GAGGGAGAAA	GCAGCTCAGT	480
TCGACTGGAA CTTCTTTCTA	TTGACACTGA	GAGGAGACAT	CTTCGGGAAA	GAGTGGAGCT	540
ATTAGAAAAA GAAAATCTCG	AG				562

- (2) INFORMATION FOR SEQ ID NO:595:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 426 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:595:

GGAAGAGCAG	AATTTGGTGG	CTTATCCTCA	TGATGGAAAA	ATCTTTTTCT	GCACCTCACA	60
AGATATCCCT	CCTGAAAATG	AACTGCTTTT	TTATTATAGC	CGAGATTATG	CTCAACAGAT	120
TGGTGTTCCT	GAACACCCAG	ATGTGCATCT	CTGTAACTGT	GGCAAGGAGT	GCAATTCTTA	180
CACAGAGTTC	AAAGCCCATC	TGACCAGCCA	CATCCATAAC	CATCTTCCTA	CCCAGGGACA	240
TAGCGGCAGC	CATGGGCCAA	GTCACAGCAA	AGAAAGGAAG	TGGAAGTGCT	CAATGTGCCC	300
CCAAGCTTTT	ATCTCTCCTT	CCAAACTTCA	TGTCCACTTT	ATGGGTCACA	TGGGTATGAA	360
GCCCCACAAG	TGTGATTTCT	GTAGCAAGGC	TTTTAGTGAT	CCCAGCAACC	TGCGAACCCA	420
CTCGAG						426

- (2) INFORMATION FOR SEQ ID NO:596:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 328 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:596:

GAAAAATCAG	TCGACTGAAT	GACACCATCA	AATCTTTGAA	ACAACAGAAG	AAACAAGTGG	60
AACATCAGCT	GGAAGAAGAA	AAGAAAGCAA	ACAATGAGAA	ACAGAAAGCT	GAAAGGGAGC	120
TAGAGGGTCA	AATCCAGAGA	TTGAACACAG	AGAAAAAGAA	ACTAAATACG	GACCTGTATC	180

ACATGAAACA	TTCTCTCAGA	TACTTTGAAG	AAGAGTCCAA	GGATCTGGCC	GGCCGCCTGC	240
AACGTTCATC	GCAGCGTATA	GGAGAGTTAG	AGTGGTCTCT	CTGTGCTGTC	GCCGCCACAC	300
AGAAGAAGAA	GCCGGATGGG	TTCTCGAG				328

- (2) INFORMATION FOR SEQ ID NO:597:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 529 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:597:

GAGAAGTGCG A	GAGGGGCCA	GTGTTGTTGT	TACCTGAAAG	GTAAGTGCAG	CCCACAAAAA	60
TGCAGTGAAG A	AGAAGATAT	ATGCATATGT	TTAAGTTAAT	ACAATTGAGA	TACATTTAGC	120
AGACAGAATC A	ATAGAGTTG	ATGAGTGACT	GACTGGATGT	GTGGGGAGTT	TATATCACTC	180
CCAGGTTTTT G	ACTTGGGCC	ACCGGGCACT	CAAGAAGGAA	AAAGAGGATC	CAGGGAGAGG	240
AACTTTTCTG A	AGGACTGGGG	TAGGGCTGAA	CAGCTGCATT	CGAGACTGGT	GGAGGGTGGG	300
CTGGGCATGG G	ATGCACAAA	TGGAAATTCC	ACTGGGTCTG	CAGCTCACAC	ATAGGCATGA	360
CCAGCATAGA G	SATAGAGAGG	CCCCAGTGCT	GCTGAGTAAC	TGTGATTCCC	CAGGTGATGG	420
CATCAGCTGA G	AAGGGAAGG	AAGCCCATGT	GAGGACACTG	AAGAAGGAGT	GAGCAGACAA	480
TAAGAAGCCC A	CAGAAGACA	GAGAAGGAAC	AACTAGAAGG	AGGCTCGAG		529

- (2) INFORMATION FOR SEQ ID NO:598:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 454 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:598:

GAAAAAGATG AAATCTGA	rg gattaggagc	ATCTGGACAT	TCGTCAAGTA	CCAATAGAAA	60
TAGTATAAAT AAAACTCT	GA AGCAAGATGA	TGTAAAGGAA	AAAGATGGTA	CAAAAATAGC	120
ATCTAAGATT ACAAAAGA	AC TTAAAACTGG	GGGAAAAAAT	GTTTCTGGAA	AGCCCAAAAC	180
TGTAACAAAA TCCAAAAC	G AAAATGGTGA	TAAGGCACGG	TTGGAAAACA	TGTCACCTAG	240
ACAAGTTGTA GAAAGATC	AG CAACAGCAGC	AGCAGCAGCA	ACTGGACAGA	AGAATTTACT	300
AAATGGAAAA GGAGTGAG	AA ATCAGGAAGG	GCAAATTTCA	GGTGCCAGAC	CCAAGGTACT	360
CACAGGAAAC TTAAATGT	C AAGCCAAAGC	AAAGCCTTTG	AAGAAAGCTA	CAGGGAAGGA	420
TTCACCATGC CTCAGCAT	CG CAGAACCCCT	CGAG	•		454

- (2) INFORMATION FOR SEQ ID NO:599:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 411 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:599:

GAATTCGGCC	TTCATGGCCT	AGGTCCTCAA	GCATTGCTTC	AATATCAATA	TCGTCTGCCA	60
TTTTCTCTAA	ACGCCTGTTC	CGGCCTTCGG	GCGCCTGTGG	TGCTCGTGTT	CGGGAAGAGA	120
TTGCTGCTGC	TGCTGCTGCT	GCTGCCGCCG	CCGCCGCTTC	TGTTGCTACT	GTTAAGCCCC	180
TAGGCCCAGG	CCGCGGAACC	GCCCAGCCCG	AATATCGGGT	TCCAAGGACG	GCTAGGCCCG	240
AGAGAATCTA	AAAAAAACAA	TGGAATTAGA	GAAGCCCACG	CGGGAGAGCA	GGACGGCGGC	300
TTCGGCAGCT	CAGGATCCAC	CCCNGCGACA	GCGTCGACAA	${\tt GTTCCCTGAA}$	ATGGCGGCCG	360
CTGCTTCCCT	GTACTCANAN	TCCACCCCCC	GAATTCTAGA	CCTGCCTCGA	G	411

- (2) INFORMATION FOR SEQ ID NO:600:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 306 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:600:

GAATTCGGCC	TTCATGGCCT	AATTAAGCCT	GCCTACTTCT	ACAATGCATT	CTGTTACCTA	60
TTTGAACAGT	ATGTTTGTAA	CTATGGCAAT	GAAGTCAGTA	GATAGGAAAC	CAGTTATTCC	120
TTCTACCTTT	AAAAATTTTG	AGAACTTGCC	AACCAGGGAC	TAAAGCTATT	ATCTTGAACA	180
GAGTCCCTAA	AGCTAGTCTA	GTTTTTGCCA	CATCTGCAAT	GATTATTGTT	TAATTTCAAA	240
AGAATCCTCA	GGCTCTACAA	TCTAGGGGTG	GTAAATGTGT	TTCCACTATA	CTTGGGACCG	300
CTCGAG						306

- (2) INFORMATION FOR SEQ ID NO:601:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 443 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:601:

GAATTCGGCC	TTCATGGCCT	AGGAATCTCC	TCTTAAACCA	GGTGAAGTGG	GAAAGCAGGG	60
ACCATACCAC	CCTGAGTGAC	ATCTACCTGA	ATAATATCAT	TCCTCGATTT	GTACAAGTCA	120
GCGAGGACTC	AGGAAGACTC	TTTAAAAAGA	GTAAAGAAGT	CGGCCAGCAG	CTCCAAGATG	180
ATTTGATGAA	GGTCCTGAAC	GAGCTCTACT	CGGTCATGAA	GACATATCAC	ATGTACAATG	240
CCGACAGCAT	CAGTGCTCAG	AGCAAACTAA	AGGAGGCGGA	GAAGCAGGAG	GAGAAGCAAA	300
TTGGTAAATC	GGTAAAGCAG	GAGGACCGGC	AGACCCCATG	CTCCCCTGAC	TCCACGGCCA	360
ACGTTCGCAT	TGAGGAGAAA	CATGTCCGGA	GGAGCTCAGT	GAAGAAGATT	GAGAAGATGA	420
AGGAGAAGCA	CCAAGCCCTC	GAG		*		443

- (2) INFORMATION FOR SEQ ID NO:602:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 585 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:602:

CAATTCCCCT	TONTGGCCTA	CAACATCTCA	CTTTTTTTTTTTT	TCATTTTCCT	ር አ አጥ አጥጥጥጥጥ	. 60
						80
CTTCTNGCTT	TCTCTTCTCC	TGGTTCCCAG	CCTCTACTCA	ATAGTCCCCC	CAGCTTTGTG	120
TGCTGGTCTC	GGGGCTTCAT	GGAGATGAAT	GGGCGGGGG	AGTTGGTGGA	GTCACTCAAG	180
AGATTCTGTG	CTTCCACGAG	GCTTCCCCCC	ACTCCTCTGC	TGCTATTCCC	TGAGGAAGAG	240
GCCACCAATG	GCCGGGAGGG	GCTCCTGCGC	TTCAGTTCCT	GGCCATTTTC	TATCCAAGAT	300
GTGGTACAAC	CTCTTACCCT	GCAAGTTCAG	AGACCCCTGG	TCTCTGTGAC	GGTGTCAGAT	360
GCCTCCTGGG	TCTCAGAACT	GCTGTGGTCA	CTTTTCGTCC	CTTTCACGGT	GTATCAAGTA	420
AGGTGGCTTC	GTCCTGTTCA	TCGCCAACTA	GGGGAAGCGA	ATGAGGAGTT	TGCACTCCGT	480
GTACAACAGC	TGGTGGCCAA	GGAATTGGGC	CAGACAGGGA	CACGGCTCAC	TCCAGCTGAC	540
AAAGCAGAGC	ACATGAAGCG	ACAAAGACAC	CCCACACATC	TCGAG		585

- (2) INFORMATION FOR SEQ ID NO:603:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 368 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:603:

GAATTCGGCC T	TCATGGCCT	AGTCTGGTAG	TAAGGTGGAG	TGGGTTTGGG	GCTAGGTTTA	60
GCTCGGGGGA	GTGGTGTTG	GGGGCCGCAG	GCTGCGCGGT	GCCTGGGTAC	ATCTCCAGGC	120
CCACGCCCCG C	GCTTGGGAA	GTCACATCCA	TGTCTCTGCG	CCGTGCAGCT	TTCAAGATTT	180
GCCGAAAGGC 1	CCCAGAGCT	CTGTTTTAAA	TGGTGAATCC	ATCTTTAGAA	AGAAGCGTGA	240
TTCTCCTTGA A	AGTGAGCCTG	GCATTTGTCA	GACAGGAAAC	TCCCCAGGAG	GAGCACCTGT	300
GGTGGTTTGG (STTGGGTTTG	TTAACTGCAG	AGAGTGGGAA	GAACAGATGC	TCCTCACACC	360
GTCTCGAG						368

- (2) INFORMATION FOR SEQ ID NO:604:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 604 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:604:

GAATTCGGCC	TTCATGGCCT	AGGAAAGACC	ATCAGCCTGG	GAGTCAGTGA	ACCTGACTCT	60
GATCCCAGCT	CTGCCTCCAN	TCAGCTGTGT	GATGACAGGT	AGGTCACCTT	CCCTCTCTGA	120
GCCACAGTTT	ATCTGTCTGT	AAACAGGGGT	ATTGGACTGG	ATTCTCTGTT	ATCTCTCATG	180
TCTCTGTGAA	AGGTCTGTGT	TTTCAAATAC	TCCTTAGGGA	CATGACCTCA	CATAGAAAGA	240
GGGGGTGCCA	CGAACTGGAT	TCCCAGCACT	CCCCCTTCCC	AGCTCTGCTC	AAGCTGAGGG	300
ACCTTGGAAC	ATGGTACTTG	GACCTAAGTA	CTCTCTCTGG	GCTTCAGTGT	CCCCAGCTAT	360
AAAATGGGGG	AAATGCCTAA	CTCAGGAGGT	TGAGGTAAGG	ACAAAAGGAA	TTAATACATG	420
GAAAGTGCCT	GGAACAGTGC	CTGGCACAGT	CTGCTTTCAG	AAAAAGCTGC	AAGGTGGCTA	480
CTCTCAGCAG	ATATAAGTTA	ATGCAGGAAC	AGCAACTAGC	AGCTCTTGGA	CATGCAATAT	540
ATTATATATT	TTTTGCATCT	TTTACCCTTC	ACGGCACTGA	GCCTCACAAT	CCGTTGACCT	600
CGAG				•		604

- (2) INFORMATION FOR SEQ ID NO:605:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 495 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:605:

GCGCAGCCAG	CGCCTGCCTC	CGACTCGACT	CCACACCTGC	TTGCTACAGC	GGGTGAGGAA	60
GCAGGAAAGG	GGGAGGGAGG	GATGTCGTCT	GGATTCCTGT	AATAATTTGT	TTCATTGTTT	120
CCAATCGACT	TAGTCACCAG	GTTAAATAGT	AGCATAGACC	TTTCAAAAAA	GTAGCTAGCT	180
TATAAGTAGA	TGTATTGAAA	ACACCTGCTT	GTTGAGTCGT	AGACAATTCC	TCATTTACTG	240
TGTGAACTCT	AGGGGGTGAA	ACACGGGCGG	AGAGCGGCTG	TGAGCTCACG	CGGCTCCATC	300
CCCACAGCGG	CCCAGGGTCA	CTCGGGGCCA	TTAATCAGGC	CGCAGAGCTG	CCCTCTGAGC	360
CGGGCCGCCA	GCGCCCACAG	GGCCCAGACC	AGGGCTCCCT	GGGCGGGATG	TTTTAAATCG	420
CACAGGGACA	AAGGAAAGGA	AAGACGCTGG	GGCCCAAGCC	CGAGCTTATG	AAACGTTATC	480
AAGGAGCGAC	TCGAG					495

- (2) INFORMATION FOR SEQ ID NO:606:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 331 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:606:

GAATTCGGCT	TCATGGCCTA	GACTTCCAAG	GACATGCTTC	GAACTCTGGC	CCAAGCCAAG	60
AAGGAATGCT	GGGATCGGTT	CCTCCAGGAG	AAGTTAGCTT	CAGAGTTCTT	TGTGGATGGA	120
CTTGATTCTG	ATGAGAGGTG	ACTACAATTG	CAAAGTAGAA	TTTGCTTTGA	CACCTGATGC	180
CAGGACAATA	GTATGTTACC	ATCCTTCTAT	AGACATTCCA	TATGAACGCA	CAAAACCTAT	240
CCCTTGACCA	GATCCTGTGT	ATAATAATGA	AGAAACACAT	GGTCAAGTGC	TGAAAACTAG	300
AGAAGAAAA	AGTGAACACC	TGGAGCTCGA	G			331

- (2) INFORMATION FOR SEQ ID NO:607:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 632 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:607:

GAATTCGGCC	TTCATGGCCT	ACTGCCTCGG	CCTCCCGAGT	AGCTGGGACC	ACAGACGCCC	60
ACCACCATGC	CCGGCTAAAT	TTTTGTATTT	TTAGTAGAGA	CGGGTTTCAC	CGTGTTAGCC	120
AGGATGGTCT	CGTTCTCCCG	ACCTCGTGAT	CCGCCCGCCT	CGGCCTCCCA	AAGTGCTGGG	180
ATTACAGGCG	TGAGCCAACT	CGCCCGGCCA	GGAATCCCTC	CTCTGTCTGA	CCTAACTGCC	240
CTCTGCCCTG	GAGCTGCTCA	GCCTCTATCA	ATTTTTCTGG	CTCTCAGCGA	ACGTTTTCAT	300
TCAGTTGCAA	GACACAGAAA	CTCAAATTCA	AACCTGCTTA	CACAAAATAG	TGAATGTACT	360
GGCTCATGCA	CTTTTTAAAG	AGATGAGGTC	TGTTGTGCTG	CCCAGGCTGG	ATGTGAACTC	420
CCGGGCCCAA	GAAATTCTCC	TGCCTCAGTC	TCCTGAGTAG	CTGGGACCAC	AGGAGCATGA	480
CTGTAAGTCC	TGGTGTGAAT	CAGGCTCCAG	AAACAGCTTG	ATCCTGGTTC	CCAACAGTAT	540
GGTCAAAACT	CATTCTCTCT	TCTGTCTTCT	TCTCTATGAC	AGGTGCTCCC	TAAGAAGTGA	600
CAAAGAAGGC	CACTAACAGC	TCTGGGCTCG	AG			632

(2) INFORMATION FOR SEQ ID NO:608:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 531 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:608:

GTATNGNTGA A	AAATAAGAAA	AAATATTTCT	GAAATTCGGG	AACTTGAGAA	CATAGAAGAA	60
CACCAGTCTG T	TAGATATTGC	AACTTTGGAA	GATGAAGCTC	AGGAAAATAA	AAGCAAAATG	120
AAAATGGTTG A	AGGAACATAT	GGAGCAACAA	AAAGAAAATA	TGGAGCATCT	TAAAAGTCTG	180
AAAATAGAAG (CAGAAAATAA	GTATGATGCA	ATTAAATTCA	AAATTAATCA	ACTATCGGAG	240
CTAGCAGACC (CACTTAAGGA	TGAATTAAAC	CTTGCTGATT	CTGAAGTGGA	TAACCAAAAA	300
CGAGGGAAAC (GACATTATGA	AGAAAAACAA	AAAGAACACT	TGGATACCTT	AAATAAAAAG	360
AAACGAGAAC 1	TGGATATGAA	AGAGAAAGAA	CTAGAGGAGA	AAATGTCACA	AGCAAGACAA	420
ATCTGCCCAG A	AGCGTATAGA	AGTAGAAAAA	TCTGCATCAA	TTTTGGACAA	AGAAATTAAT	480
CGATTAAGGC A	AGAAGATACA	GGTAGAACAT	GCTAGTCAAG	GAGACCTCGA	G -	531

- (2) INFORMATION FOR SEQ ID NO:609:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 330 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:609:

GTGACTTTGG	AACCTTGAGA	GTTAGATGAA	TAAATCAGAA	AAATGGAATT	AAATGTATCT	60
ACTTTATTAT	TGGTAAATCT	GGTTAGGATG	TGCAGCCCTA	ATCAGGCTTC	CTTAATTCCT	120
TCTCCACTGA	GTCTGGACCA	GCACTCTCCA	GTAGAACTTT	CTATGATGAC	GGAAATCCTC	180
TGTGTCTGCG	CTGATCAGTG	TGGTAGTTAC	TGGCCACATG	TGGCTGTTGA	GTACTTGAAA	240
TGTGGCCAGT	GTGGTGATGG	AATTGTGTTT	TTAATCTTAT	TTAATTTAAA	TTTAAATAGC	300
CAAATGTGGC	TAGTGGCTGT	TGTACTCGAG				330

- (2) INFORMATION FOR SEQ ID NO:610:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 345 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:610:

GTGGAGGCTT	TCTTGATCAT	GGATGGTGAA	GATATACCAG	ATTTTTCAAG	TTTAAAGGAG	60
GAAACTGCTT	ATTGGAAGGA	ACTTTCCTTG	AAGTATAAGC	AAAGCTTCCA	GGAAGCTCGG	120
GATGAGCTAG	TTGAATTCCA	GGAAGGAAGC	AGAGAATTAG	AAGCAGAGTT	GGAGGCACAA	180
TTAGTACAGG	CTGAACAAAG	AAATAGAGAC	TTGCAGGCTG	ATAACCAAAG	ACTGAAATAT	240
GAAGTGGAGG	CATTAAAGGA	GAAGCTAGAG	CATCAATATG	CACAGAGCTA	TAAGCAGGTC	300
TCAGTGTTAG	AAGATGATTT	AAGTCAGACT	CGGGCCGAAC	TCGAG		345

- (2) INFORMATION FOR SEQ ID NO:611:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 633 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:611:

${\tt GAATTCGGCC}$	TTCATGGCCT	AAATGACCAN	ATCGAGAGGG	AGGACTATGA	GGACTTTGAG	60
TACATTCGGC	GCCAGAAGCA	ACCCAGGCCA	CCCCCAAGCA	GAAGGAGGAG	GCCCGAGCGG	120
			CCGGCCCCAG			180
CCTCCTGTGA	ACCTCTGCTG	CCCCCGCTGC	CCCCTGACTA	TGGTGATGGT	TACGTGATCC	240
CCAACTACGA	TGACATGGAC	TATTACTTTG	GGCCTCCTCC	GCCCCAGAAG	CCCGATGCTG	300
AGCGCCAGAC	GGACGAAGAG	AAGGAGGAGC	TGAAGAAACC	CAAAAAGGAG	GACAGCAGCC	360
CCAAGGAGGA	GACCGACAAG	TGGGCAGTGG	AGAAGGGCAA	GGACCACAAA	GAGCCCCGAA	420
AGGGCGAGGA	GTTGGAGGAG	GAGTGGACGC	CTACGGAGAA	AGTCAAGTGT	CCCCCCATTG	480
GGATGGAGTC	ACACCGTATT	GAGGACAACC	AGATCCGAGC	CTCCTCCATG	CTGCGCCACG	540
GCCTGGGGGC	ACAGCGCGGC	CGGCTCAACA	TGCAGACCGG	TGCCACTGAG	GACGACTACT	600
ATGATGGTGC	GTGGTGTGCC	GAGGTCACTC	GAG			633

- (2) INFORMATION FOR SEQ ID NO:612:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 296 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:612:

AAATACTAGA	GATAAAGTAG	ATTCATGGCT	TGGTAAGGAA	-ATTTTAAGCA	TTCCTTCAAA	60
GATTGACGTG	CTAAAATAAG	CATTGATGTT	TTGAGTTTTT	TTACACCTAG	GATTTTTAGC	120
TTGGGTGTGT	AGGTGAAGGC	CAAGACTCTC	TGCAGGAAAA	AGCTTATTTT	CAAACTCAGA	180
AAATAAAATG	TCAATCATAA	AAATCTACTT	CAACTTTAGC	AAAAAGAAAA	AAAAAATCAA	240
CAAAAAGTAT	ACTCTGTATG	CTGGGATTCC	GAGGTTCCAA	CACACTGTTA	CTCGAG	296

- (2) INFORMATION FOR SEQ ID NO:613:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 268 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:613:

GATCCAGTGC	TGCAGCTTCC	TTACTATGAA	ATGACAGCTC	CACTTCCTAA	TAGTGCATCC	60
GTGTCTTCCT	CACTGAATCA	TGTTCCAGAT	CTTGAGGCTG	GACCCAGCTC	ATATAAATGG	120
ACTCACCAAC	AACCAAGTGA	CTCTGACCTT	TATCAGATGA	CAGCTCCACT	TCCTAATAGT	180
GCATCCGTGT	CTTCCTCACT	GAATCATGTT	CCAGATCTTG	AGGCTGGACC	CAGCTCATAT	240
ATAATGGACT	CGCCAACAAC	CCCTCGAG				268

(2) INFORMATION FOR SEQ ID NO:614:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 272 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:614:

GGTGGAAACT ATCCAAGAGG	CCTTCTGAAT	TCCTCTGACA	TATATTTGAG	AAACTGGGCT	60
ACTGAAAGCC CTAACCCCAC	TTGGCTGCAT	TTTATTTGGT	AACCAGTGAG	GCAAACACCC	120
TTGCCAGACC CCTACCATCC	ATCTTGATGT	GGTTCCTGCA	CTGGACACTG	CTTGGGTACG	180
GGCCTGCCCA GATCTTGGGA	ATGTGGGCAG	TGGCTCCTCT	GAAGCACCAG	TGGGCAGAGG	240
ATGAGTCATG GTATCCTCCC	GGCACCCTCG	AG			272

(2) INFORMATION FOR SEQ ID NO:615:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 521 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:615:

GAATTCGGCC	TTCATGGCCT	AGTATTTTTG	TAGAGACGGG	GCTTCAGCAT	ATTGGCCAGG	60
CTGGTCATGA	ACTCCTGACC	TCAGGTGATC	CTCCTGCCTC	AGCCTCCCAA	AGTGCTGGGA	120
TTACAGGCAT	GAACCACTGC	ACCCAGTCAA	GGGTATAAAA	TTTCTACACA	GCACAGGCAG	180
ATTCTGGCTG	TGGAAGACCC	CAAGATTCTT	TGGAATTGTG	ATGCTTTATT	TAATTTAGAG	240
ATTATCTTCT	CTGTCCCACT	CTTCCCCTTC	CTAAAAAGGA	CTAGATGCTT	GCTGCTTAAT	300
TAGTAAAGCA	AATTTAAGAT	AATTTTCTGC	TTTGAGATTT	AGGGATAGAT	TTTTTAACAT	360
AGTCTTGCTG	ATAATGATAG	ACATCCTGGG	ATGTTGGAAA	TTAGGAAACT	TGAACTTTTA	420
TTTGCACAGA	CTGAGAATTA	TGACTGAGGA	AAAGTTAGAG	GATCAGAAAA	AATAAATTTA	480
TAAATCACAA	GCTAGGCTTG	GCAATATGAG	TGGCGCTCGA	G		521

- (2) INFORMATION FOR SEQ ID NO:616:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 577 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:616:

GAATTCGGCC	TTCATGGCCT	AGATTGGAAG	GTGTGGTAGG	CAGAATTCTG	GCCCCCATGA	60
CTGCCCCTTC	CCCTCACACC	CCCCGGGTTG	CTCCAATGGT	TATGTCACGT	TGCTTGGCAA	120
AAGGGACTTT	GTAGATGTCA	TAAAAGGTGA	CTAATCAGCT	GACTTGAGAG	AGTTTATCCT	180
GGATTATCCA	AGGGGCCCAG	TGTAATTCCA	AGAGCCCTCA	AGAGCAGAGC	TGGAGAGATG	240
CCGCGCAGGA	GGCCTGGGTG	CCGTTTCGGA	GCAGGATGGA	AGGCGGTGAA	TCCCGCCTCC	300
AGCATGGAGC	TCGGGAGAGG	CCCTGACTGC	AGATGGAGAG	GCTGCCCTGG	CCGCAGCGCA	360
CGGGGCTCCT	GACCCACAAA	AATCGCGAGA	TAATGAGTTC	ATGTTGTTTG	AAAGTCCGTC	420

ATTTCTGGTA ATTTGCTATA TAAAACTATT GCTATACGAT TAAAAACTAA TACAGAAGAA TATTTCTTTA ACATTATGTT AAAAAGGAAA AAAGCTAACA TTTTCTTTAT AGCAAAACAC TGCCATGATT TACATTAAAA TTAGGAACAT ACTCGAG	480 540 577
(2) INFORMATION FOR SEQ ID NO:617:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 269 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	•
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:617:	
GAATTCGGCC TTCATGGCCT AGCACATACA GTATAAAAAA TAATCACCCA CCATAATTAT ACCAAATTCC TCTTATCAAC TGCATACTAA GTGTTTTCAA TACAATTTT TCCGTATAAA AATACTGGGA AAAATTGATA AATAACAGGT AAGAGAAAGA TATTTCTAGG CAATTACTAG GATCATTTG AAAAAGTGAG TACTGTGGAT ATTTAAAATA TCACAGTAAC AAGATCATGC TTGTTCCTAC AGTATTGCGG GCCCTCGAG	60 120 180 240 269
(2) INFORMATION FOR SEQ ID NO:618:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 469 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:618:	
GAATTCGGCC TTCATGGATT CTGCTTTGAA TATAGCTACA GAAATAAAGG ATGGACTACA ATGTGGGACA GTGTCTTCTC AGAAACAACC AGCCTTGAAG GCTACAAACTG ACGAGGAAGA TTCTGTTTCG AATATAGCCA CAGAAATAAAA GGATGGAGAA AAATCTGGGA CAGTGTCTTC TCAGAAACAA CCAGCCTTGA AGGCTACAAC TGACGAGGAA GATTCTGTTT TGAATATAGC CACAGAAATA AAGGATGGAG AAAAATCTGA GACAGTGTCT TCCAGAAAC AACCAGCCTT GAAGGCTACA ACTGACGAGG AAGAATTCTGT TTCGATTATA GCCACAGAAA TAAAGGACGG AGAAAAATCT GGGACAGTGT CTTCTCGGAA AAAACCAGCC TTGAAGGCTA CAAGTGATGA GAAAGATTCT TTTTCGAATA TAACCAGAGA AAAAAAGGAT GGACTCGAG	60 120 180 240 300 360 420 469
(2) INFORMATION FOR SEQ ID NO:619:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 448 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:619:	
GAATTCGGCC TTCATGGCCT AGTCCGTGTT GTGGTCAGTG TGTGAACTCC ACACTGGACA GTAGCTGAGT TTGGGCAGG ATGAGGAGTG GAGGGGTGAG GTCTAAGGTT CAGAAAAGT TTGTGTTTAA GAACTTGGTT ACACTGGAGT CAGTTGCAGA CCAGAATGGA GAAAAGCACT CCTGACTTGA GTTGGGTGTG CTTGGGACTG GATCACCTTT GACCTTCTTT ATTTACCTAA	60 120 180 240

CTTATTTGGG GATGCTTAGC	GAGCAGGGGA GGCAACACTA TTTCTCTTGG GTGTTAGAAG AAGATTCGAG CACTGGTCTC TATCTTTGCC TTCAGCTGAA TCAACATCTA AGATGTTTTA TAATTCCTCT TAAAAAAAGA ATAAGCAGAG GCCGGACGTG GTGGCTCATA CAGCAGTGTG GTCTCGAG	300 360 420 448
(2) INFORMA	ATION FOR SEQ ID NO:620:	
(i) .	SEQUENCE CHARACTERISTICS: (A) LENGTH: 457 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
	SEQUENCE DESCRIPTION: SEQ ID NO:620:	
	•	
TGAACAGAAC GGTAATTTTA AACTGTGAGA ACATGCATCG GCATACACTA TAATGACCTG	TTCATGGCCT ACTTAAATCC ATCAAGTTAC ACAATCGATC TGTTGTCAGC CACATTAAAT TTAAGCCAAA CACACCAATA GGAATGTTGG AGGTAGAGAA AAGCCAAAAA TGTTGGATAA GAAAAAACCT ACACCTATAA TACCAGAGAA GTAGTGATTA ATTTTAAGAA AACACAGAAG ACCATAGTGA GAGTGAGTCC CTTCAAGAGC TTGCCCCTAT TATATGTAGC AAATGTGAGT TTGATCCGTT TTGTTGAAAG ATTATCAATC GCAGGAGCCT CTTGACTTGA	60 120 180 240 300 360 420
(2) INFORMA	ATION FOR SEQ ID NO:621:	
(i) .	SEQUENCE CHARACTERISTICS: (A) LENGTH: 287 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:621:	
AGTTTGGATT GAGGGTTTTC AGACAGAAGT	TTCATGGCCT ACTCTCGAT TTACAGATTG CTAATTAAAT GGCTATTATT AATTAGACTT AAGAAAACAA CTAACTGAGG GTTTTTTTG TTTGTTTTTT TTTGCATGAG AATTGTATGT AACCAGTGAT ATGATTATTC CTGAATGTAC AAGCCTGGAC ATTGTTAAAT AGTCCCTGCT TTAAGGGACT ACGATAATGT AAACGTGCTT TATTCTTCTA ACGCAGTAAG TCTCGAG	60 120 180 240 287
(2) INFORMA	ATION FOR SEQ ID NO:622:	
(1).	SEQUENCE CHARACTERISTICS: (A) LENGTH: 328 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:622:	
CAGGAGTAAT	TTCATGGCCT AGTAGGTGTA TCACAGATTT CTAATGTAGA ATGGTCAGTC TGTAATTGTG GAAAAATGGA GAATTATAAA ACAAGAATGA TGTGCAAAAA TGAATTCATC TGTGTTCCTC TAAACTATTT CATTTACTCA TTCATCCAAG	60 120 180

TTTTGAAAAA	TGTTGGGAGT	CTGAAAAATT	CCAGGCACTC	TGGATAAATG	AGTATGGAAG	240
AATCCTCCAA	AAGAACTTTT	AGTCTACAGG	GGAACATTAA	TAAGCAATCA	GGGACTTGAG	300
ACCTACAGTG	CTGTGGAAGA	TTCTCGAG				328

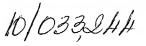
- (2) INFORMATION FOR SEQ ID NO:623;
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 375 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:623:

GAATTCGGCC	TTCATGGCCT	AGGACGTTTG	GGTTGTTTCC	ATCTCAAATA	AATAAATAAA	60
TAAAAGTCTA	TAAAAACAGC	TGGGCCCAGG	CATTTAAAAA	AATGTTCGGT	CTTCTAGTTT	120
AGTCTTTTAT	${\tt TGTCTATGCA}$	AATTCTTTGG	CTATTGAACT	ATCCAAGCTT	TCTCTTTTTA	180
AGCTTTTGGG	GAATAGGTTG	CAATACATTT	CTTGTCTACT	GTTTCTCTTA	GTGTTTTCTA	240
ATTCTAACCC	ACTGTTTTTG	GAATTTCTAT	TAGATGGTTT	TGCAACTTCT	GCATCTATCC	300
TCCATGCACC	TTCACATTTC	CTTCACAGTT	TTCGTGCTGT	TTTCCTTGTG	TGCTACATTC	360
TGCACAGGAC	TCGAG					375

- (2) INFORMATION FOR SEQ ID NO:624:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 763 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:624:

GAATTCGGCC	AAAGAGGCCT	ACCTCAAAGG	ATTGGCTAAA	AGCAAGCAAC	TGGATTGAAC	60
ACCCTAAGAA	GAAAGATTCA	CACTGCACCA	GGAGACATCA	GAAAGAATGA	AAACTCTGCC	120
GCTGTTTGTG	TGCATCTGTG	CACTGAGTGC	TTGCTTCTCG	TTCAGTGAAG	GTCGAGAAAG	180
GGATCATGAA	CTACGTCACA	GAAGGCATCA	TCACCAATCA	CCCAAATCTC	ACTTTGAATT	240
ACCACATTAT	CCTGGACTGC	TAGCTCACCA	GAAGCCGTTC	ATTAGAAAGT	CCTATAAATG	300
TCTGCACAAA	CGCTGTAGGC	CTAAGCTTCC	ACCTTCACCT	AATAACCCCC	CCAAATTCCC	360
AAATCCTCAC	CAGCCACCTA	AACATCCAGA	TAAAAATAGC	AGTGTGGTCA	ACCCTACCTT	420
AGTGGCTACA	ACCCAAATTC	CATCTGTGAC	TTTCCCATCA	GCTTCCACCA	AAATTACTAC	480
CTTCCAAATG	TGACTTTTCT	TCCCCAGAAT	GCCACCACCA	TATCTTCAAG	AGAAAATGTT	540
AACACAAGCT	CTTCTGTAGC	TACATTAGCA	CCAGTGAATT	CCCCAGCTCC	ACAAGACANC	600
ACAGGTGCCC.	CACCCACACC	TTGTGACAAC	TACACNAGCT	CCACCATCTT	CCTCAGCTCC	660
ACCAGAGACC	ACAGTNGCCC	CACCCACACC	TTTTGCAACT	ACACNAGCTC	CACCATCTTC	720
CTCAGCTCCA	CCAGAGACCA	CAGCTGCCCC	ACCCATCTTC	GAG		763

- (2) INFORMATION FOR SEQ ID NO:625:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 476 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA



(xi) SEQUENCE DESCRIPTION: SEQ ID NO:625:

GAATTCGGCC	AAAGAGGCCT	AGTAGTTTCT	ATGTGCGGTC	TGGGGTGGGG	GCAAGGCCCT	60
TGTGTTCCAC	TGGTTTCCAC	CACGTTGACA	GCAGTCGCTG	GCAGCAGAGA	GCCATTTCCT	120
GTCATGCTGG	TCTGTTCCAG	GACTCTGTGG	AAGATTCTCT	ATCTCCACTG	GCACAGGAGC	180
AGAGGAAATG	GAAGGACTCA	CAGGCAGAGC	AGATCTCATC	CCCCAAGCCT	GTTGGGAGCC	240
ATTACTTTGG	GTCGAAACAT	TATTGTGAAC	ACTAAGTTCT	TCAGGTTTTG	TAGCACATGC	300
TTTCATTTGT	AGAGTTCGTC	TAGAATATCG	TTTGCTGGGC	CTTCTTTCAA	AGGATGTTGA	360
TCTTCTTGCT	TTATTGGTTT	TTGTGGTCTG	ATACTCTGTT	TTCCCACTAT	ATCTAAATCG	420
TGATCCTAGT	CGAATAAATC	CTGATCGATG	AGAACTCTTT	TGGACGGGGC	CTCGAG	476

(2) INFORMATION FOR SEQ ID NO:626:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 234 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:626:

GCGATTGAAT	TCTAGACCTG	CCTCAACTGT	CTGGTTTCCT	GTAAAATAAA	CACATTGTTT	60
ATTTTTTA	GGGAACAAAA	AGTGCTGCTA	TAGGGTTCAA	AGTTTTCCTT	CTGAACACTT	120
TTCCGAAACA	AATTACCCCA	AAGACACATT	TTGAATATCC	TGGTCACATC	TTTGGATCTG	180
TAAAATATAC	CTTTTAGTAT	GGCACCTGTT	AAAATGCAAA	GCAAAAACCT	CGAG	234

(2) INFORMATION FOR SEQ ID NO:627:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 583 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:627:

GAATTCGGCC	TTCATGGCCT	AGGCCTTGTG	AATCATTCAG	CATAAGGAAC	TGTCAATATT	60
TTTTTGAGCT	GTCAGAAATC	CATTTAGTGA	TTTTCGACAA	TTCAAAAAAA	TATTTCTGAC	120
CGCTTGATTC	AGTTCCTAGT	GAATTAGGGA	AGAAGAGGAA	TAAAAGAAAT	ATATCAATCT	180
AAATTATGAA	CCCAGAGTCT	AGCTTCCTGA	ATTCTTCTCT	GTGCTTAAAC	GAACAACAGG	240
ATGTTGAGGT	TCAAAAATAC	TCTCTTCTAT	TTCCCCCCCT	TCCTTCCCTT	TTCTTTCCTT	300
CTCTTCCATT	CCTCGAAAAG	ATAATAAAAC	AGAATGTGCC	TAGAGCTTCT	GGAAAGAATA	360
CAGTCCTGCT	GATACTAGAA	CTCAGTGAAA	TTTGCACCAG	ATTTCTGAGC	TACAGAACTG	420
AAGATAATTC	ATTTATTTCA	AGCCACTGAG	TTTGTGGTAA	ATTTGTTACA	GTAGCAATAA	480
AAATCTAATA	CATGCCTTCT	ATACCAGAAG	TACACATCCA	CGTGACCATT	CCTGTCCTCA	540
CCCCACACAC	ACATACACAC	ACACACACAC	ACGCACACTC	GAG		583

(2) INFORMATION FOR SEQ ID NO:628:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 295 base pairs
 - (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:628:

GAATTCGGCC	TTCATGGCCT	ACCTGCCTCG	AGTTCCTACT	GCCCCGGGC	GGCCTGCACA	60
GAGCTGCTGC	CCTCCAGAGA	CTGTGAATCC	CAAGCCTGAC	TCAGTGGACT	GCTTCCTGTT	120
CCCCTCCCTC	CTCTTCCTCA	CCTTGTTCTG	CACCCTCAAG	CCTTTCTCCA	ATGCCTCCCA	180
GGAGGATTTG	GGGACTTTCT	CCCTGGGGCG	CCCAGATCCA	GCTCGGAGGC	CTCACTGGGA	240
CCTGGCAAGG	CCTGACCTCC	CGCCCAAACT	TGCTTCTGTA	GCCCCCTAC	TCGAG	295

- (2) INFORMATION FOR SEQ ID NO:629:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 344 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:629:

GAATTCGGCC	TTCATGGCCT	AACCTGTTGC	TTCCCCTGGG	ACTGAAGGCA	GAAGTGACTC	60
CCGAAATTCT	CTTTCTGGAC	TCAGAAGGAA	ACCAAAGCAA	TTGATGACAC	CGCATCCCAT	120
ACTAAAAGCT	ATGGAAGAGA	GAGCAATTCA	ACGAGCTGAA	TGTAGGCGGA	TCTTGGCAGA	180
GAAGNAGAAA	AAACAAGAAG	AAGANAAATT	GGCCCAGTTA	AAGGCCCAAG	AGGAGGAACG	240
TCAGAAAAGG	GAGGCAGAAG	AAAAGGAGGC	ACAGCTTGAA	AGAAAACGAG	AAGAGAAGAG	300
ACTGAAGAAA	ATGAAAGAAC	TTGAGAAGCA	GAAGAGAACT	CGAG		344

- (2) INFORMATION FOR SEQ ID NO:630:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 257 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:630:

GAATTCGGCC TTCATGGCCT	AGTTCTTCCT	TAGGAACAAG	GGCAGGACCT	CAAACAGTCC	60
AGAGGAGAAG CCTGGGGTGG	TCAGGGAAGG	CTTCCTGGCT	GAGAGGACAG	GCTTAGGGGC	120
ACCTTGAAAG TTCAGGCTGA	CTGGGGCTAG	GGGCATGTGG	GTAACAGGTT	AAAGGGGGGG	180
GGGCTGGAAA ATGCAGACAC	CAAAGACCCT	TCAATATGAG	GCCAAGAAAG	GAAGGTTCAG	240
AACAGGGATC ACTCGAG					257

- (2) INFORMATION FOR SEQ ID NO:631:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 326 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:631:

GTTCCAAATC	CATGGGAACC	AGCACAGGAG	CTACAGCAAA	TCATGGCACT	TCTGCAGTAG	60
CAATTACTAG	CCATGATTAC	CTAGGACAAG	AAACTTTGAC	AGAAATCCAA	ACCTCACCAG	120
AAACATCAAT	GAGAGAGGTG	AAAGCGGACG	GAGCTAGCAC	CCCCAGGTTA	AGAGAACAGG	180
ACTGTGGTGA	ACCTGCCTCG	CCAGCAGCAT	CCATCTCCAG	ACTCTCTGGG	GAACAGGTCG	240
ACGGGAAGGG	CCAGGCAGGC	AGTGTATCTG	AAAGTGCGCG	GAGTGAAGGA	AGGATTAGTC	300
CAAAGAGTGA	TATTACTGAG	CTCGAG				326

- (2) INFORMATION FOR SEQ ID NO:632:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 480 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:632:

GAAAAAATGG	AAGAATTTGT	TTGTAAGGTA	TGGGAAGGTC	GGTGGCGAGT	GATCCCTCAT	60
GATGTACTAC	CAGACTGGCT	CAAGGATAAT	GACTTCCTCT	TGCATGGACA	CCGGCCTCCT	120
ATGCCTTCTT	TCCGGGCCTG	TTTTAAGAGC	ATTTTCAGAA	TACACACAGA	AACAGGCAAC	180
ATTTGGACAC	ATCTCTTAGG	TTGTGTATTC	TTCCTGTGCC	TGGGGATCTT	TTATATGTTT	240
CGCCCAAATA	TCTCCTTTGT	GGCCCCTCTG	CAAGAGAAGG	TGGTCTTTGG	ATTATTTTC	300
TTAGGAGCCA	TTCTCTGCCT	TTCTTTTTCA	TGGCTCTTCC	ACACAGTCTA	CTGCCACTCA	360
GAGGGGGTCT	CTCGGCTCTT	CTCTAAACTG	GATTACTCTG	GTATTGCTCT	TCTGATTATG	420
GGAAGTTTTG	TTCCTTGGCT	TTATTATTCT	TTCTACTGTA	ATCCACAACC	TATTCTCGAG	480

- (2) INFORMATION FOR SEQ ID NO:633:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 307 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:633:

GAATTCGGCC	TTCATGGCCT	AGCGGGATCG	TATCACTACG	CACGTGGCGT	CAATGACAAA	60
GACGCCTTCC	CCACGGGACA	GGCCCTGGGA	ACTGCGGGGC	AAGGTGTGGG	CACGGCGGGT	120
CGCCTTCCAA	CCCTCCAGGG	TCTCCGGTCC	TGCCCCCTCT	CCAAGACCCA	GAGATTCTCT	180
CCATCCGGTG	CCTCCGGGAG	CCCAGGGTCT	GGGGAGTGTC	TGGCTATGGC	GGGGCGGCTG	240
CTTTTTAGGG	GAGGGAATCC	AGCATTTGGG	AAACCAGATC	TGTTCTCCTT	CTTTCCCTTC	300
CCTCGAG						307

- (2) INFORMATION FOR SEQ ID NO:634:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 458 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:634:

CCTCTGCAAG	AAATGCCTAA	GCGTATTATC	AGGAAGTGGA	ATTATAAAAT	GTTTCCAGAT	60
CAAATTAAGC	ATCTACAGGT	GAATTAATAT	AGAATTAAGC	TTAGAAAGCT	TAAGTAGAAG	120
TTGAATGAAT	TGTGTTCATT	CTTTGAAACC	CATTGATTTG	CAAAACCAAT	ATTCCACTGT	180
CTATAGGAGG	CAATTCAGAC	TGAAAATAAT	TTAGAAAAAA	AAATAGTCCA	GAAAAAAAAA	240
TAGTTCTAGA	GATAAATAGG	TCATTTGAAG	ACTAACCTCT	GCCATTAGGG	GTTTCTAAAG	300
ATAGGCTGAC	TCTATCTATT	TAATAATTAT	TTTGTTCATT	AACTCCTTGC	ATATAGAATT	360
GTAACTGATA	CCAGCCAGGT	ACGGTGGCTC	ACGCCTGTAA	TCCCAGCACT	TTGGGAGGCC	420
AAGGCGGGCA	GATCACCTAA	GGTCGGGAGT	CTCTCGAG			458

- (2) INFORMATION FOR SEQ ID NO:635:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 343 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:635:

GAATTCGGCC	TTCATGGCCT	ACCCACTCTC	ACTTTGTACC	TCTGTCAGTT	ATCTCCTCTT	60
TACCCTTCTT	TCAACGAGCA	TACCACCGGC	CCTCCCAGCA	CCTATGGCCC	AAGCCAGTTG	120
TTTGCAAATT	TTATACTGTG	ACACAGGACA	ATTTACACAC	ACATACACAG	TTTCACTTGT	180
GACATACTTT	TTTTTTGAGA	TGGAGTCTCA	CTTCATTGCC	CAGGCTGGAG	TGCAGTGGTG	240
TGATCACACC	TTATTGCAGC	CTCAAACTCC	TGGGCTCAAG	TGGTCTTCCT	GCCTCAGCCC	300
CCCTAGTAGC	CAGGATTACA	GGCGTGCACC	ACCATTTCTC	GAG		343

- (2) INFORMATION FOR SEQ ID NO:636:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 402 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:636:

GTGGATAACA AACAAACAAA	TCTGATGCTC	CCTGAGTCAA	CTGTTTATGG	TGATGTGGAC	60
CTTAGTAACA AAATCAATGA	GATGAAAACC	TTCAATAGCC	CAAATCTGAA	GGATGGGCGT	120
TTTGTCAATC CATCAGGGCA	GCCTACTCCT	TACGCCACCA	CTCAGCTCAT	CCAGTCAAAC	180
CTCAGCAACA ACATGAACAA	TGGCAGCGGG	GACTCTGGCG	AGAAGCACTG	GAAACCACTG	240
GGACAGCAGA AACAAGAAGT	GGCACCAGTT	CAGTACAACA	TCGTGGAGCA	AAACAAGCTG	300
AACAAAGATT ATCGAGCAAA	TGACACAGTT	CCTCCAACTA	TCCCATACAA	CCAATCATAC	360
GACCAGAACA CAGGAGGATC	CTACAACAGC	ACAGAGCTCG	AG		402

- (2) INFORMATION FOR SEQ ID NO:637:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 290 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:637:

GCTTCCTCGC	AGCAAGCGGC	TGGAGATAGA	GAAGAGCTTA	CTGGTGCGAG	CGTCCGTCGA	60
CCCCGTCGCC	GCTGACCTAG	AGATGGCAGC	CGGTCTCACC	GACATATTTC	AGCATGATAC	120
ATACTGTGGT	GATGTCTGGA	ACACCAACAA	ACGCCAGAAT	GGCAGACTCA	TGTGGCTCTA	180
TCTCAAATAC	TGGGAACTCG	TTGTCGAACT	GAAGAAGTTT	AAGAGAGTAG	AGGAAGCCAT	240
ACTAGAAAAG	TAAGACAAGA	GTGAAATCAA	ACTGCTTTTA	GTGACTCGAG		290

- (2) INFORMATION FOR SEQ ID NO:638:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 463 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:638:

GTCGAGAAAA	TGGGGATAAT	GGAGAAATTG	TGGGCAAGCT	GGCTTCCTGG	GAAGGGACTA	60
ATTGAACAAG	ACAATGATTT	ATCTTTTCGG	GGTTCAGAGG	CAGCTTGTTA	ATTCGAATTA	120
TTTTCTTTAT	TTTTGCCCAC	AAGTGTTTGG	TTGTCCTTTT	CTCTGGCTTT	TTACCTGATC	180
AGGCTGCAAG	CTGCAAAGGT	GTGGCTTGTG	CTGCAGATTT	GTAATAAAAG	ATGACAGGTG	240
AGAGAGACAG	TGGTGGAACT	GGTAGAGCTT	GCACACCCAC	ACGGTGTGGC	TGCTCGGGAG	300
GCTGTCTAGT	GCACCTGCCA	ACAGAGCACA	GATATCCTCT	CTTCCTCATT	TCAGATTCCT	360
CCTTCCAGCT	GTTTACTAAA	CAGCAACAAA	AACACCCTCT	TGGCTGTAAC	TTGTCAAATA	420
AAGTCCCTGC	AAAGTGTATA	AGATTTTCCT	CCCCAACCTC	GAG		463

- (2) INFORMATION FOR SEQ ID NO:639:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 513 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:639:

GCGAGGGAGA	TGGCAGCCTG	GGCTTTAGCA	GCAGGGAGGA	AGGTGAANAA	AGAACCGGGG	60
CTTGCAGCAG	AGGTGGGTTC	TGCCTTAAAG	GCAGAGACCC	CCAACAACTG	GAATGCCACG	120
GAAGACCAGC	ATGAGCCTAC	CAAACCTTTG	GTTCGCAGGG	CTGGAGCTAA	TTCTCGCTCC	180
AGGAGAAAGA	AGCAGAAGAA	GAACTCCAGG	CAGGAAGCAG	TGCCCTGGAA	AAAACCCAAA	240
GGCATCAATT	CCAACAGCAC	AGCTAACTTG	GAGGATCCTG	AGGTGGGTGA	TGCTGAAAGC	300
ATGGCGATCT	CAGAGCCGAT	CAAGGGCAGC	AGAAAGCCCT	GTGTGAATAA	GGAGGAGTTG	360
GCTTTGAAGA	AGCCCATGGC	GAAATGTGCC	TGGAAGGGTC	CCAGAGAGCC	ACCTCAGGAT	420
GCCCGGGCAG	AAGCCGAGAG	CCCAGGAGGC	GCCTCTGAGT	CAGACCAAGA	TGGTGGCCAT	480
GAAAGCCCAC	CAAAGAAGAA	GGCCGAGCTC	GAG			513

- (2) INFORMATION FOR SEQ ID NO:640:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 510 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:640:

GAATTCGGCC	TTCATGGCCT	ACACCTCAGC	CTCCAGAGCA	GCTGGGACTA	CAAACGTGTG	60
CCACCATGCC	GGGCTAATTT	TTGTATTTTC	AGCAGAGGTG	GGGTTTCACC	ATGCTGCTGG	120
CCAGGCTGGT	CTCGAACTCC	TGGCTTCAAG	TAATCTGCCC	ACCACAACCT	CCCAAAGTGC	180
TGGGATTACA	GGTGTGAGCC	ACTGCGCCCA	ACCAAGAGCT	CCTTTTTGTT	TTTCTTTTTT	240
TGTGAATTCG	GATTCTTTAT	ATTCAGGAGT	TTTACTTAAA	CTTTGAATCT	GAAAGAAACT	300
TTAGGAGGAG	CTCATAGATT	TGTGGGAAGA	AGCAAATCTA	CATTATTTTC	TCTCTTCTAA	360
AATCATATTC	CATGTATTTT	GATCTTTTAC	TGAATTTTAA	CACATTGTTT	CATCACTAAC	420
ATAAAGTGTT	TCAATAGTTT	TTGTAACTCA	CACACAAATA	CTGGATTTAA	AAGTTATATA	480
CCTGAGTATA	TTTTTATGGC	AGGTCTCGAG				510

- (2) INFORMATION FOR SEQ ID NO:641:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 308 base pairs
 - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:641:

GAATTCGGCC	TTCATGGCCT	AGTGTTCCCA	GCCAGTCTCT	ATTCTCTCAC	CTAACACTCT	60
CAAGGAGATA	GAAGCTTCAG	CTGAAGTCTC	ACCCACCACG	ATGACCTCCC	CCATCTCACC	120
CCACTTCACA	GTGACAGAAC	GCCAGACCTT	CCAGCCCTGG	CCTGAGAGGC	TCAGCAACAA	180
CGTGGAAGAG	CTCCTACAAT	CCTCCTTGTC	CCTGGGAGGC	CAGGAGCAAG	CGCCAGAGCA	240
CAAGCAGGAG	CAAGGAGTGG	AGCACAGGCA	GGAGCCGACA	CAAGAACACA	AGCAGGAAGA	300
GGCTCGAG						308

- (2) INFORMATION FOR SEQ ID NO:642:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 305 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (2) 101020011 111102

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:642:

GAATTCGGCC	TTCATGGCCT	AGTTAGATGA	AAATCTAAAG	GATGAATACT	TTGAGGAAAT	60
CATGGAAGAA	TATGAAGATA	TTAGACAGGG	CCATTATGAG	TCTCTCAAGG	AGAGGAGATA	120
CTTACCCTTA	AGTCAAGCCA	GAAAAAGTGG	TTTCCAAATG	GATTGGCTGT	CTGAACCTCA	180
CCCAGTGAAG	CCCACGTTTA	TTGGGACCCA	GGTCTTTGAA	GACTATGACC	TGCAGAAGCT	240
GGTGGACTAC	ATTGACTGGA	AGCCTTTCTT	TGATGTCTGG	CAGCTCCGGG	GCAACCCCAC	300
TCGAG						305

- (2) INFORMATION FOR SEQ ID NO:643:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 301 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:643:

GCGATTGAAT	TCTAGACCTG	CACCCAGCCA	ACACTGAGAG	ATTTTAATGA	GTACTTTTAT	60
CCACCTGACC	ACCATCATTA	CCTATCACCT	GTCATTCTTC	ATCCACCCTA	CATCCATCCT	120
TCATCCCCCC	ATCATCCACC	CATCTATCCT	TCATCCATCC	ATTCATCATG	GAACCATTAT	180
CCATCCAACT	ATCATCCAGC	CAGCCAGAAA	TGACCCATTC	ATCTTCATCT	CTCATTTCCT	240
CTCTCTAAAC	CAGTTCTTAA	TCTGGGGCCA	AAGTCCTACC	CACACATCCC	TTAGTCTCGA .	300
G						301

- (2) INFORMATION FOR SEQ ID NO:644:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 408 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:644:

GAATTCGGCC	TTCATGGCCT	AGATCCCCCG	TGGAGAAAGC	AGTGACACAT	TCACACAGCT	60
GTTCCCTCGC	ATGTTATTTC	ATGAACATGA	CCTGTTTTCG	TGCACTAGAC	ACACAGAGTG	120
GAACAGCCGT	ATGCTTAAAG	TACATGGGCC	AGTGGGACTG	GAAGTGACCT	GTACAAGTGA	180
TGCAAAGGAG	GGTTTCAAAG	AAAAAGGATT	TTGTTTAAAA	TACTTTAAAA	ATGTTATTTC	240
CTGCATCCCT	TGGCTGTGAT	GCCCCTCTCC	CGATTTCCCA	GGGGCTCTGG	GAGGGACCCT	300
TCTAAGAAGA	TTGGGCAGTT	GGGTTTCTGG	CTTGAGATGA	ATCCAAGCAG	CAGAATGAGC	360
CAGGAGTAGC	AGGAGATGGG	CAAAGAAAAC	TGGGGTGCAC	GCCTCGAG		408

- (2) INFORMATION FOR SEQ ID NO:645:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 364 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:645:

GAATTCGGCC	TTCATGGCCT	AGTTATGTGA	TTAGGAGTAG	GGTTAGGATG	ANTGGGAAGA	60
AGAAAGAGAG	GAAGTAAAGT	TTAATTATGC	CTTTTTGGGT	TTATTATCCC	TGATGCATGT	120
GGCCCCCCAC	TGCTGTGTCC	TTCTCCTGTT	GGCTAGGGTT	AGACCACACA	GGCTAAACTA	180
ATTCCGATTG	GCTAATTTAA	AGAGAATGAC	GAGGTAAGTG	TTTTGGCGGG	AAAAATGGTT	240
ATGACAGAGC	AGGTAATAGG	AATGAGTTAG	GGTGGAGTAG	GTAATCGGAA	TGAGTCAGGG	300
TGGAGCAGGT	AATTGGAATG	AGTCAGGGTA	GAGCAGGTAA	TCGAAAAAGG	TTGCTTTGCT	360
CGAG						364

- (2) INFORMATION FOR SEQ ID NO:646:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 320 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:646:

GAATTCGGCC TTCATGGCCT AGGAGTGCAT TTGGATCTAG TGTTTTCTAT CAATCTGTCT	60
GCTGATGTGG CACTACTGCA CCATTTACCA CAACATTAGA ATATGTCTGA GTAACTGGTT	120
GGCTTAGATT TTTTGCATTG AGTCCCACCC CATTTTCCAG AACTTTCATG GCTATTCTTA	180
TATGTTTGTT TTCCGTAAGA TCTTTAGGAT CAATTTGTCT AGTTCTAAAG AGGAAATTCT	240
GATATTATTG ATTTAGTAAC TTTCCATGAA AAAAACCTAC CATCACAGGA AAGATGCACA	300
TTAATTACAG GTAGCTCGAG	320
(2) INFORMATION FOR SEQ ID NO:647: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 267 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:647:	
GAATTCGGCC TTCATGGCCT AGTCAGTGGC TAGATTGATT GATCCTCCAG AATTAGACAC	60
TCACATCTTA ACACCAGTCT CACTTGGAGG GCTGATAGTA AACCTTATTG GTATCTGGAGG	120

CTTTAGCCAT GCCCATAGCC ATGCCCATGG AGCTTCTCAA GGAAGCTGTC ACTCATCTGA

TCACAGCCAT TCACACCATA TGCATGGACA CAGTGACCAT GGGCATGGTC ACAGCCACGG

180

240

267

(2) INFORMATION FOR SEQ ID NO:648:

ATCTGCGGGT GGAGGCGAGG TCTCGAG

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:648:

GAATTCGGCT TCATGGCTAC	TTTTGGTAAA	GCATACCCAA	CCTTCAGTTA	GAATATCTCC	60
TGATAATAAG AAAGATCTCA	TTGAAATTTA	TTAATTCTTT	TGTGTCTAGT	AGATAACTTG	120
GATGGCACAC AGTGCTTTGA	TTTTTACCTG	CCCAGAATTT	AACTCCTCAT	CCTATCCTAC	180
ATGATTTTCT TTTTCCTCTC	CCCCTTCCTC	TTTTATTCCA	TGTCACTGGG	AATGGCAGGT	240
CTTGCACCAA GTAATGGCAG	GTCTTGCACC	AAGCAAGCCA	GAAACCTGAG	CTTTAGTCTT	300
TATTCCTCCC CACTTCTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:649:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 559 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:649:

GAATTCGGCC	TTCATGGCCT	AGAGGAAGTG	AACGGATGGG	GCCTCATCCT	CCTGCCTCCC	60
TAAAGGGTGA	GGGTGGAAGG	ATGGGGCTGT	GCCCTCTTAG	GGCAGGGAAA	AACAGCTTGG	120
AGGGGTTTCT	GCCATCAGAG	ATCCCATAGG	AGGCAGGTCA	GTCCTGCAGA	ATTTCTCCCC	180

AGTCTGGCCT	CCAGCCTCCC	TGGCCCCTTT	CTAGAGGCCT	CCATCCCACT	GGCGGCTTGC	240
TCCTGCCACC	GGGCCTCTGC	ACAGTCACCT	CCTGCAGCCT	GGGGTGTGTC	GCCTCTCCAC	300
GTCTTGATAT	TTTTGCTGGA	ATGCAGACGA	TACTATATTT	ACCGTATAAT	ATATTATCAG	360
CTCTCCTATA	TCTCAGTCAA	TTTACATAGT	TTAAAATAGA	ACATCTTATT	AAAAACATCT	420
AGATATACAC	AGATTAGGAA	ACGCTTACAA	CATACAAATA	CACAAACTAG	AAATAAATCT	480
TTAGCATACT	GGTATATACA	ACAGTGTGAT	ACAATAAATA	ATTTCATTCA	TGCTCTATCT	540
ACACATCATA	TTGCTCGAG					559

- (2) INFORMATION FOR SEQ ID NO:650:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 477 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:650:

GAATTCGGCC	TTCATGGCCT	AGGGAGACTG	AGGCAGGCAG	ATCACCTGGG	GTCGGGAGTT	60
CGAGACCAGC	CTGACCAGCA	GGGAGAAACC	CCGTCTCTAC	TAAGAATAGA	AAATTAGGTG	120
TGGCGGTGCA	TGCCTGTGGT	CCCAGCTACT	CGGGAGGCTG	AGGTAGGAGA	ATCGCTTGAA	180
CCCGGGAGGC	GGAGGTCATG	GTGGGCCGGG	ATTGCACCAT	TGCACTCCAG	CCTGGGCAAC	240
AAGAGTGAAA	CTCCATCTCA	AAAAAAA	AGCCTAGCCT	CCCAAAGTGC	CAGGATTACA	300
GGCATGAGCC	ACCGCGCCTG	TCTGTCCGCC	CGTCTTCTTT	TTTAAGAGCA	AGAAAAGGTT	360
TCCCAGAAGT	ACTCTGGTAG	ATTCTTATCA	CACACACATT	CCTAAACCAG	TTACTGGCAA	420
AGAAAATAGA	ATTATCATGA	TTAATTAGCA	TATTCTGAAG	NACATGCTTC	CCTCGAG	477

- (2) INFORMATION FOR SEQ ID NO:651:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 414 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:651:

GTGTGAACCT	ACGGGAAGGC	GGCCGCCTGC	ACCTCTGTGC	GGAGACCAAG	GATGATGCCC	60
TAGCATGGAA	GACAGCACTG	CTGGAGGCAA	ACTCCACCCC	GGTGCGCGTC	TACAGCCCGT	120
ACCAAGACTA	CTACGAGGTG	GTGCCCCCCA	ATGCACACGA	GGCCACGTAT	GTCCGCAGCT	180
ACTACGGACC	GCCCTACGCA	GGCCCTGGCG	TGACGCACGT	GATAGTGCGG	GAGGATCCCT	240
GCTACAGCGC	CGGCGCCCCT	CTGGCCATGG	GCATGCTTGC	GGGAGCCGCC	ACTGGGGCGG	300
CGCTGGGCTC	GCTCATGTGG	TCGCCCTGCT	GGTTCTGAGC	CCTGGGACTC	GGAGCACTGA	360
CCCCTGCGCT	TEGATTECTA	GACTCCTCTT	CCTCCTGGAC	CCCATCCTCT	CGAG	414

- (2) INFORMATION FOR SEQ ID NO:652:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 325 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:652:

GAAGGAAAAC	ATGGGCACAG	GGGATTTTAT	CTGCATTTCC	ATGACTGGAG	GGGCGCCCTG	60
GGGGTTCAGA	$\mathtt{TTGCAAGGTG}$	GCAAGGAGCA	GAAGCAGCCC	TTACAAGTTG	CAAAGATTCG	120
AAATCAGAGC	AAAGCCTCTG	GGTCTGGGCT	CTGTGAGGGA	GATGAAGTGG	TTTCCATCAA	180
TGGCAACCCT	TGTGCAGATC	TCACCTACCC	TGAAGTCATC	AAGCTCATGG	AAAGCATAAC	240
AGACTCTCTC	CAAATGCTCA	TCAAAAGACC	ATCCAGTGGA	ATAAGTGAGG	CTTTGATATC	300
TGAAAATGAA	AACTCTAACC	TCGAG				325

- (2) INFORMATION FOR SEQ ID NO:653:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 443 base pairs (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:653:

AGGTATTTAG	GCTTTTGTCT	TAACAGCAAA	TCCTGGCTGT	60
TCCATGGGTA	TCCACTCCCT	GTCCACAGTG	TGGGAGCCCC	120
CACAGAGCCC	GGCATGGTCC	AGAAGGCGGG	CTTATGGGGC	180
GAGCCCACAC	TGTGATAGGA	GGGCAGACAC	ACAGGATGTG	240
GTGAAGAATT	TCATTCTTTT	GCAAGGACTG	GAGAGAAAAT	300
TGGAAATGAC	CTCAAAGAAT	AGGTAGGATC	TTAGCCTGCG	360
CAGGATGACA	GGATGAAGAG	GCCACAGCAC	AGCTGCAGAC	420
GAG				443
	TCCATGGGTA CACAGAGCCC GAGCCCACAC GTGAAGAATT TGGAAATGAC	TCCATGGGTA TCCACTCCT CACAGAGCCC GGCATGGTCC GAGCCCACAC TGTGATAGGA GTGAAGAATT TCATTCTTT TGGAAATGAC CTCAAAGAAT CAGGATGACA GGATGAAGAG	TCCATGGTA TCCACTCCT GTCCACAGTG CACAGAGCCC GGCATGTCC AGAAGGCGGG GAGCCCACAC TGTGATAGGA GGCCAGACAC GTGAAGAATT TCATTCTTT GCAAAGGACTG TGGAAATGAC CTCAAAGAAT AGGTAGGATC CAGGATGACA GGATGAAGAG GCCACAGCAC	AGGTATTTAG GCTTTTGTCT TAACAGCAAA TCCTGGCTGT TCCATGGGTA TCCACTCCT GTCCACAGTG TGGGAGCCCC CACAGAGCCC GGCATGGTC AGAAGGCGGG CTTATGGGGC GAGCCCACAC TGTGATAGGA GGCCACACAC ACAGGATGTG GTGAAGAATT TCATTCTTTT GCAAGGACTG GAGAGAAAAT TGGAAATGAC CTCAAAGAAT AGGTAGGATC TTAGCCTGCG CAGGATGACA GGATGAAGAG GCCACAGCAC AGCTGCAGAC GAG

- (2) INFORMATION FOR SEQ ID NO:654:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 311 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:654:

GGGAGCGCCG	GTGGTTCATC	CTGACCGATA	ACTGCCTCTA	TTACTTTGAA	TACACAACAG	60
ATAAGGAGCC	CAGGGGAATC	ATCCCGTTGG	AAAACCTCAG	CATCAGGGAG	GTGGAGGACC	120
CCCGGAAACC	CAACTGTTTT	GAGCTCTACA	ATCCCAGCCA	CAAAGGGCAG	GTCATCAAGG	180
CCTGTAAGAC	GGAGGCCGAC	GGCNGCGTGG	TAGAGGGGAA	CCATGTGGTG	TACCGGATCT	240
CAGCCCCGAG	CCCGGAGGAG	AAGGAGGAGT	GGATGAAATC	CATCAAAGCC	AGTATCAGCA	300
GATCCCTCGA	G					311

- (2) INFORMATION FOR SEQ ID NO:655:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 346 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:655:

GGGGGATACG	GATACCCAAA	CTTCAATGTT	CCTTGATAGT	AGGAAGGAGG	ACAGTTATAT	60
AGACCATAAG	GTGCCTTGCA	CAGATTCACA	AGTGCAGGTC	AAGTTGGAGG	ACCACAAAAT	120
AGTAACTGCC	TGCTTGCCTG	TGGAACATGT	TAATCAGCTG	ACTACTGAGC	CAGCTACAGG	180
GCCCTTTTCT	GAAACTCAGT	CATCTTTAAG	GGATTCTGAG	GAGGAAGTAG	ATGTGGTGGG	240
AGATAGCAGT	GCCTCAAAAG	AGCAGTGTAA	AGAAAACACC	AATAACGAAC	TGGACACAAG	300
TCTTGAGAGT	ATGCCAGCCT	CCGGAGAACC	TGAACCATCT	CTCGAG		346
GCCCTTTTCT AGATAGCAGT	GAAACTCAGT GCCTCAAAAG	CATCTTTAAG AGCAGTGTAA	GGATTCTGAG AGAAAACACC	GAGGAAGTAG AATAACGAAC	ATGTGGTGGG	240 300

- (2) INFORMATION FOR SEQ ID NO:656:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 116 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:656:

GAATTCGGCC	AAAGAGGCCT	ACTAAACCGT	CGATTGAATT	CTCGAGGCAG	GTCTAGAATT	60
CAATCGACGG	TTTAGGCTCC	CTATAGTGAG	TCGTATTAAT	TTCAGAGGTG	TATTTA	116

- (2) INFORMATION FOR SEQ ID NO:657:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 482 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:657:

GAATTCGGCC	AAAGAGGCCT	AGGGATGAGG	GTGAAGAAGG	GGAGAGGGTT	GGTTAGAGAT	60
ACAGTGTGGG	TGGTGGGGGT	GGTAGGAAAT	GCAGGTTGAA	GGGAATTCTC	TGGGGCTTTG	120
GGGAATTTAG	TGCGTGGGTG	AGCCAAGAAA	ATACTAATTA	ATAATAGTAA	GTTGTTAGTG	180
TTGGTTAAGT	TGTTGCTNGG	AAGTGAGAAG	TTGCTTAGAA	ACTTTCCAAA	GTGCTTAGAA	240
CTTTAAGTGC	AAACAGACAA	ACTAACAAAC	AAAAATTGTT	TTGCTTTGCT	ACAAGGTGGG	300
GAAGACTGAA	GAAGTGTTAA	CTGAAAACAG	GTGACACAGA	GTCACCAGTT	TTCCGAGAAC	360
CAAAGGGAGG	GGTGTGTGAT	GCCATCTCAC	AGGCAGGGGA	AATGTCTTTA	CCAGCTTCGG	420
TGGCTGGCAC	GTGTTACCAG	GCCGAGTGGG	ATGACTATGT	GCCCAAACTG	TACGAGCTCG	480
AG						482

- (2) INFORMATION FOR SEQ ID NO:658:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 430 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:658:

GAATTCGGCC	AAAGAGGCCT	AGTCGAGTCC	CTTCTGTCCC	AGTCGTTCGT	GCCTCTTGTC	60
CCACGCAACT	CCAGCTTGTA	CCATGCCGGT	CAAAGGAGGT	AGCAAGTGCA	TCAAATACCT	120
COTOTTOCA	መመጥ አ ር መመር አ	ずとかかとするなどか	CCCTCCCATT	CCACTCCTTC	CTATTCCACT	180

ATGGCTCCGA	TTCGACTCTC	AGACCAAGAG	CATCTTCGAG	CAAGAGAATA	ACCATTCCAG	240
TTTCTACACA	GGAGTGTACA	TTCTGATTGG	AGCCGGGGCC	CTCATGATGC	TGGTTGGTTT	300
CCTGGGCTGC	TGTGGAGCTG	TACAAGAGTC	CCAGTGCATG	CTGGGATTGT	TCTTCGGGTT	360
CCTCTTGGTG	ATATTCGCCA	TTGAGATAGC	CGCCGCCGTC	TGGGGCTATA	CCCACAAGAG	420
TCGAGTCGAG					•	430

- (2) INFORMATION FOR SEQ ID NO:659:

 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 290 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:659:

GAATTCGGCC	TTCATGGCCT	AAGAGTACAG	AGATTTCACT	TCATCTTGTG	CTAATGTTTA	60
ATTNAAAGTA	TATTGACACT	AGTAAAGACA	CTTTATTTTA	ATTTGAGGTA	TAAATGTCTA	120
CCTAAAATAG	ACTATTTCCA	TTGAGTCATA	CATTTTAAAT	GTGGTATATA	TTCTTATATT	180
TCAGAAAATG	ATAACTATCA	TAGAAATCTA	ATACTCATTA	ATTTGATTAA	TAATTATTTT	240
TTTCCTCAAA	TTTGGAAATA	TCTTTTCCTA	TGTAATGGTC	ATGTCTCGAG		290

- (2) INFORMATION FOR SEQ ID NO:660:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 406 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:660:

GAATTCGGCC	TTCATGGCCT	AGTCAGAAGT	CTTTGTGTCC	CTGTTTTTGT	GTCCATTTCA	60
TGTACCTTGG	CACTTTAAGG	CTTGTCCTGC	AAAATAAAAC	ATTGCATCAT	CACTTGTGAA	120
GGCAGAGCTT	GGGAGTTTGC	ACTGCTAAGA	TGAGGATAGG	AAAGAAATTT	ATGCCGCAGG	180
GCCTTTGATG	CTGCCCACTC	ACCTGTCTGC	ACAGCCAGGG	CACGGCCAGC	GGGAGTGGAG	240
AAGACGAGCG	AGACCAAAAC	CTTGCCGTGG	GGAGGAGGGT	GGCATAGCCA	TTGATAAATC	300
GGGACTTGAA	CTATCCCATC	ACTCTAAAAA	TATTTTTTAT	CTGATTACAA	AAGTAATAGA	360
TGGCCAGGCA	TGATGGCTCA	TGCCTGTAAT	CCCAACACTC	CTCGAG		406

- (2) INFORMATION FOR SEQ ID NO:661:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 461 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:661:

GAATTCGGCC	TTCATGGCCT	AGTGGAACTG	AAAACTCAGA	GGAGGCATCA	AACCCAGGCT	60
TGGGGGACAA	AACTAAGTCT	TGCCAGAGTC	CTGAAGGATG	AACAACAGTT	AACCAAGCAA	120
GGGATACTGG	AGGGCATGGA	GGCTCTCTGG	CCTGGAGTGC	AGAGCATGGA	GTGCTCAAAG	180

AGCTAGTTAG	CTCTGCAAAG	CTGAGTGTCA	GGAATGTAAA	GGGAGAGAAT	AGGAGTGAGA	240
GAAGAGTCTG	GCAAGGCAGA	CAGGGAAGGC	CTATATGCCT	TGATGGAGAA	CCACTGAAGG	300
ATTTAAAGAA	GGAGAGGGTT	AATTTTGTCC	AATAGAAAGA	TCACATTGTG	TGTAGTGTGG	360
AGGATGGGTT	GCAGAGAGAG	AAGCTAGAGA	CCAAAAGATG	AGACGGGAAC	AGCTGCAAAT	420
TTCGAGAGCT	CGTAAGATTA	TGTATGGCTG	GACCACTCGA	G		461

- (2) INFORMATION FOR SEQ ID NO:662:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 502 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:662:

GAATTCGGCC	TTCATGGCCT	AGCCTGAGCT	CAGGAGTTCA	AGACCAGCCT	GGGCAACACA	60
GTGAAACTCC	ATCTCTACTA	AAATACATAA	AAATTAGCTG	GGCCTGGAGG	CATGCACCTG	120
TGGTCCCAGT	GCTACTGGGG	AGGCTGAGGC	AGGAGAATTG	CTTGGGCCCG	GGAGGCAGAG	180
GTTGCAGTGA	GCCAAGATCG	CGCCACTGCA	CTCCAGCCTG	GGCAACAGAG	CGAGACTCCA	240
TCTCAAACAA	ACAAACAAAC	AAACAAACAA	ACAAAACAAC	AGTTATTTTT	TTCTCACCAT	300
TCTAAAGAAT	GTTACATTTG	ATTCTTTTTC	AAAATTTGGT	CAGTTTTGAT	AGTCTTATTT	360
CTCCATACTT	TCATTCCCCC	TTTTTTTTC	TGTAAATAAT	TGAACTTTAT	ATTCCTTATA	420
TGATAATTTT	AATATCCAAA	GTCATTGGTC	ATATTCTCCA	GTTCATGATT	TCTGCTGAGT	480
TTGTGGTGCT	GATTTTCTCG	AG				502

- (2) INFORMATION FOR SEQ ID NO:663:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 485 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:663:

GAATTCGGCC TI	CATGGCCT A	CAACCACCA	ACATTTGTGT	TTTTGCAGAT	GAACAGGTTG	60
ACAGAAGTCC CA	CTGGCTCA .G	GAGTGACAG	CCCGAATTGC	CTTACAGTAT	CACAAAGGGC	120
TTCTGGAACT GA	ACCAGATG A	GAGCCTTCA	AAAGCAGTGC	AACTGGCTCA	GTATTCACAG	180
GGAAAGCTGT GA	GGGTAAGT G	GCACCCTTA	GCTTCTTATT	TATAAATGTG	TCACTCATGA	240
GACTGGAGAG GC	CTGAGTTG G	GTGTTTGAT	AAATTTCTTC	ACTCAGCTCT	CAGAAGAGAA	300
TTTTAAAGCA GG	CCTGTAAA A	ACTTCTTTT	CAACTAGGAC	ATTGGTTATC	CAGTGTGGTC	360
TTGGGGCCCC AG	CGGGCCCC T	AAGGTCCTT	TCCATGGGTT	CAGAGGGTCA	AAACTGTGTT	420
CATAATAATG AC	ATTATTTG C	TTTTCACTC	TCATTCTCTC	AAGAGTGTAC	AGTGGGTTAC	480
TCGAG						485

- (2) INFORMATION FOR SEQ ID NO:664:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 348 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:664:

GAATTCGGCC	TTCATGGCCT	AAAAATTATA	AAGTGTAAAA	TATCTTTGTA	TCTCTAGTTT	60
TTCTCCTTTC	CCCAGATAAG	AATAAAAGCA	GGCTGCAGGC	TCCTGGGGTG	ATAACCCACT	120
TGGGTCGAGT	TCCATCGCTG	TTGGCGATAA	ATCTTGTTGG	TGTTCACTTT	TTGGGTTCTC	180
ACTACCTTTA	TGAGCTATAA	CACTCACCCT	GAAGGTCTGC	AGCTTCACTC	CTGAAGCCAG	240
CGAGAGTACG	AACCCACAGG	CAGGAAGAAA	CTCTGAACAC	ATCCGAACAT	TGGAAAGAAC	300
AAACTCCAAA	CAAGCCGCTT	TTAAGAACTG	TAACACTCAC	AACTCGAG		348

(2) INFORMATION FOR SEQ ID NO:665:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 571 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:665:

GAATTCGGCC TTCATGGCCT	AGTCGTTATC	AGAGGTGGAG	ACATTTAGAA	GTTGTTCTTA	60
ATCAGAGTGA AGCTTGTGCT	TCGGAAAGTC	AACCTCACTC	CTCAGCACTC	ACAGCACCTA	120
GCTCTCCAGG TTCCTCATGG	ATGAAGAAGG	ACCAGCCCAC	ATTTACCCTC	CGACAAGTTG	180
GCATAATATG TGAGCGCCTC	TTAAAAGACT	ATGAAGATAA	AATTCGGGAG	GAGTATGAGC	240
AAATCCTCAA TACCAAACTA	GCAGAACAAT	ATGAATCTTT	TGTGAAATTC	ACACATGATC	300
AGATTATGCG ACGGTATGGG	ACAAGGCCAA	CAAGCTATGT	GTCATGAAGC	TTTGTCACAT	360
ATCTGGGTAC CAGGTTTGAC	CTCAAGAGAT	GGCTGCTGTA	CACTTTTTGC	AACTGGTTTG	420
ATGTCACATT TCAGCTCCAA	CTTTGCATCC	TGAGAACACT	TAAACGTTTC	TGCAGGTCCA	480
TTTTATACAA CTTGAAAGAC	CGTAAAACTT	TCTGGTTGCC	ACAAGCATAT	CTTTCTTTTC	540
TGCTCATCCA ATAAACAGCT	GAGCCCTCGA	G			571

(2) INFORMATION FOR SEQ ID NO:666:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 444 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:666:

GGGATCATTA	TTATTCAGCT	ACTGAGAACT	AGAATATTAA	GAGACTGCTG	GCAAGGCAAG	60
CAGTTAATTT	TCAGTTGAAA	TTGCATTAAA	TAAAAAGTAT	TTTCTTGCTT	TGTGGAAGCA	120
CGTGAATTTT	TGTAAAAAGC	TGCTTGTTTT	CCCCATTTAC	AGGTTCTGTA	CAGAGTAATG	180
AGATGTGTGA	CGGCTGCAAA	CCAGGTGTTT	TTTTCTGAGG	CTGTGTTGAC	AGCTGCTAAT	240
GAGTGTGTTG	GTGTTTTGCT	CGGCAGCTTG	AATCCTAGCA	TGACTATACA	TTGTGACATG	300
GTCATTACAT	ATGGATTAGA	CCAACTGGAG	AATTGCCAGA	CTTGTGGTAC	CAATTATATC	360
ATCTCAGTCT	TGAATTTACT	CACGCTGGTA	TGTGAATTAT	TCTTTTCCTT	TTTAATGTGT	420
TGGTTTATTC	AGGCCCATCT	CGAG				444

(2) INFORMATION FOR SEQ ID NO:667:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 524 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:667:

GGGAACTGAC	AAGCAATTAA	CTGGAGAATA	AGTGAGGGGA	ATGGAGCAGT	AGTATTCTTT	60
AACTTAATTT	GCCATTTAAG	AGAGCACTTG	GAATCTGAAG	AAAGTCTATC	CCTACCAAGG	120
AAACGGAGTC	AAATTGCAAT	TAAGATTAAC	TTTGGTTATA	TGGAAGCAAG	AATCATGCTT	180
CTCATCATCA	ATTGCGTCTC	TTTGGTAGCC	AATAATTCCA	TCTGTAATCA	TGGCAGCAAC	240
TTAAGTATTG	CCAATGTTTT	CAAATGTGTT	ACAGCATTAA	GGCATCCACA	TCTAAAGAGG	300
CAGTTTTAAA	CAAGAGGAAA	ACGGAACTGA	AATGTGCCAA	GAAGTGAACA	CGGACATGGC	360
CTCTCCTGGA	ATACTGCCCA	CCATGCCAGC	AAGCTCTTCC	TCCAGTCAAG	AAGGCCTGTG	420
CCACGCTGCT	TGGTTCCCTG	CTGCCTGAAG	ATGCATTTGA	GCCCTATGAG	ATTAGTATGG	480
CTATTTCTGT	CTGCTGACCA	GGAGAGAAAT	GAGTAGTTCT	CGAG		524

- (2) INFORMATION FOR SEQ ID NO:668:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 554 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:668:

GAATTCGGCC	AAAGAGGCCT	ACACAGAGGG	ATAATTGGCA	TTGGTATCAA	CTGACATATT	60
CACAACTTTG	AATAAAACTT	TCCACATTTG	GAAAATCACC	ATGCCTGGCC	CCTAGGCTAT	120
ACTTTGAAAA	CCACTGCTTT	AGTGTTTTAG	AAATTGTTAC	CCTCATACTA	ATATTTACTA	180
CACCCCCCAC	CTTGACAATA	CATACAAAAG	AGGAGTAACA	GTTTCCCATA	ACCTTTCTAA	240
ATTTGAGTCT	TATTAAACCA	GACTCATAGC	CCTTGTTGAC	TTTTCTTCCT	GATCTGTGCC	300
TTATCCCTAG	GGCGGTGATC	ATGCGGGTAT	CTGCTAATTG	GCAGATGTGA	GTGGTTATAC	360
CTATTTACAA	GCAACTCATT	GCAAAAATAA	TTTTAGCTAA	AGAAAACATC	CATGGCCAGA	420
GAATAAGTTT	TGGAATTTGA	TATGTTAAAT	GAGCTTTATG	TTTACCTTTA	AAAGGTTAAA	480
ATATTTACCA	TTCATGGATT	ACCTTTTTC	AGAAAGTAAG	AATATATAAA	TTACATTTAA	540
TCTTGAAGCT	CGAG					554

- (2) INFORMATION FOR SEQ ID NO:669:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 329 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:669:

GAATTCGGCC	TTCATGGCCT	AATCGTATTC	CATCTACTGC	ATACTTTTCA	TAGATGTCCT	60
CCATCAGAAG	CACCTATGGT	TGTTTGTTAA	ACGTGTTATT	TCCTGATCCC	ACCCCAGGAT	120
TTCTGAGTAT	TCTAAGAATT	TCTAAGTGTA	AGGCCTGGAA	ATATGCATTT	TACAACCCCC	180
TAGAACATTC	TTATGTGCAC	TAAAATTTGA	GAACCACTAA	TCTGGTGTAT	ATACTGTTGT	240
TACTTAATAT	TTTCTTAATG	ATAGATACTT	GGATGATTTT	TGACTTTATT	ATTATTATAA	300
GCAATGTTGT	AAACATCACA	CAGGCCAAG				329
	CCATCAGAAG TTCTGAGTAT TAGAACATTC TACTTAATAT	CCATCAGAAG CACCTATGGT TTCTGAGTAT TCTAAGAATT TAGAACATTC TTATGTGCAC TACTTAATAT TTTCTTAATG	CCATCAGAAG CACCTATGGT TGTTTGTTAA TTCTGAGTAT TCTAAGAATT TCTAAGTGTA TAGAACATTC TTATGTGCAC TAAAATTTGA	CCATCAGAAG CACCTATGGT TGTTTGTTAA ACGTGTTATT TTCTGAGTAT TCTAAGAATT TCTAAGTGTA AGGCCTGGAA TAGAACATTC TTATGTGCAC TAAAATTTGA GAACCACTAA TACTTAATAT TTTCTTAATG ATAGATACTT GGATGATTTT	CCATCAGAAG CACCTATGGT TGTTTGTTAA ACGTGTTATT TCCTGATCCC TTCTGAGTAT TCTAAGAATT TCTAAGTGTA AGGCCTGGAA ATATGCATTT TAGAACATTC TTATGTGCAC TAAAATTTGA GAACCACTAA TCTGGTGTAT TACTTAATAT TTTCTTAATG ATAGATACTT GGATGATTTT TGACTTTATT	GAATTCGGCC TTCATGGCCT AATCGTATTC CATCACTGC ATACTTTCA TAGATGTCCT CCATCAGAAG CACCTATGGT TGTTTGTTAA ACGTGTTATT TCCTGATCCC ACCCCAGGAT TCTTGAGTATT TCTAAGATTT TCTAAGTGTAA AGGCCTGGAA ATATGCATTT TACAACCCCC TAGAACATTC TTATGTGCAC TAAAATTTTGA GAACCACTAA TCTGGTGTAT ATACTGTTGT TACATATATAT TTTCTTAATG ATAGATACTT GGATGATTT TGACTTTATTATAA GCAATGTTGT AAACATCACA CAGGCCAAG

(2) INFORMATION FOR SEQ ID NO:670:

- (i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 267 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:670:

GGCGTATGAT	ACCTAAAGTG	GAGTGGTCGG	CGTTCCTGGA	GGCGGCCGAT	AACTTGCGTC	60
TGATCCAGGT	GCCGAAAGGG	CCGGTTGAGG	GATATGAGGA	GAATGAGGAG	TTTCTGAGGA	120
CCATGCACCA	CCTGCTGCTG	GAGGTGGAAG	TGATAGAGGG	CACCCTGCAG	TGCCCGGAAT	180
CTGGACGTAT	GTTCCCCATC	AGCCGCGGGA	TCCCCAACAT	GCTGCTGAGT	GAAGAGGAAA	240
CTGAGAGTTG	ATTGCACCAG	ACTCGAG				267

- (2) INFORMATION FOR SEQ ID NO:671:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 429 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:671:

GAATTCGGCC	TTCATGGCCT	ATTATCTCTC	AAAAACAAAG	CAATAAGTAC	CAAGAAATAG	60
CAACAAAAAT	TAGCTTGTAA	GGTTGGTTTC	TGAGGGTAGA	AATGGCTCTT	GATGCCATGT	120
GGAGCAATGG	GAAGGAGGCT	TTCTAGTTAC	ACAGACTCTT	GGTCCTGCCA	CTTATTCATT	180
TTATTTTATT	TTATATTTA	CTTTAAATTT	TTTGAGATAG	GGTTTCACCC	TGTCGCCCAG	240
GCTGGTGGGC	AGTGGCTCAC	TGCAGCCTCG	AACTACCAGG	CTGAAGTGAT	GCTCTTACCT	300
CAGCCTTTCG	AGTAGTTGGG	ACAACAGGTG	CACACCACCA	TTCCTGGCTA	ATTAAAAAAA	360
TTTTTTTGTG	GGAACATGGC	AAGACCTTGT	CTCTATTAAC	AACAACAGCA	ACAGCAACAA	420
CAACTCGAG						429

- (2) INFORMATION FOR SEQ ID NO:672:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 357 base pairs
 - (B) TYPE: nucleic acid
 - . (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:672:

GTAAAATCGT	TCTTGAGAGG	AACGTCTCTG	TGCGAAGAGA	TAATGAGTTT	AGCTCTGAGA	60
AGTGAGCTTG	TAGTGGACAA	AACAAAGAGG	AAAAAAAGAA	GAGAACTGTC	TGAGGAACAG	120
AAACAAGAAA	TTAAAGATGC	TTTTGAACTA	TTTGATACAG	ACAAAGATGA	AGCAATAGAT	180
TATCATGAAT	TAAAGGTGGC	AATGAGAGCC	TTGGGGTTTG	ATGTAAAAAA	AGCTGATGTA	240
CTGAAGATTC	TTAAAGATTA	TGACAGAGAA	GCCACAGGGA	AAATCACCTT	TGAAGATTTT	300
AATGAAGTTG	TGACAGACTG	GATATTGGAA	AGAGATCCCC	ATGAAGAAAT	ACTCGAG	357

- (2) INFORMATION FOR SEQ ID NO:673:
 - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:673:

GGTAGATACT	GGTTTTTCGT	ATCCTGCTTC	TCTTAAGGGC	AGCTCTTTTT	AGCATACTCC	60
CATGCAGCAA	CAGAAATTTG	TATCTTTTTT	TTCTTTTTTG	AGATGGAGTC	TCGCTCTATC	120
ACTAGGCTGG	AGTGCAGTGG	CACAATCTCG	GCTCACTGCA	ACCTCTGCCT	CCTGGTTCAA	180
GCGATTCTCC	TGCCCTAGCC	TCCTGAGTAC	CTGGGACTAC	AGGTGCGCGC	CACCACACCC	240
AGCTAATTTT	TATATTTTA	GTAGAGACGG	GGTTTTACCA	TGTGGCCTCG	AG	292

- (2) INFORMATION FOR SEQ ID NO:674:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 470 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:674:

GGATGGACAT	CAGCACTTTA	CGGCGCCAGC	TGAGACCCAC	AGGCCAGCTC	CGTGGAGGGC	60
TCAAGGGCTC	CAAGAGTGAG	GATTCGGAGC	TGCCCCCGCA	GACGGCCTCC	GAGGCTCCCA	120
GTGAGGGGTC	TAGGAGAAGC	TCATCCGACC	TCATCACCCT	CCCAGCCACC	ACTCCCCCAT	180
GTCCCACCAA	GAAGGAATGG	GAAGGGCCAG	CCACCTCGTA	CATGACATGC	AGCGCCTACC	240
AGAAGGTCCA	GGACTCGGAG	ATCAGCTTCC	CCGCGGGCGT	GGAGGTGCAG	GTGCTGGAGA	300
AGCAGGAGAG	CGGGTGGTGG	TATGTGAGGT	TTGGGGAGCT	GGAGGGCTGG	GCCCCTTCCC	360
ACTATTTGGT	GCTGGATGAG	AACGAGCAAC	CTGACCCCTC	TGGCAAAGAG	CTGGACACAG	420
TGCCCGCCAA	GGGCAGGCAG	AACGAAGGCA	AGTCAGACAT	CCAACTCGAG		470

- (2) INFORMATION FOR SEQ ID NO:675:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 637 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:675:

GAATTCGGCC	AAAGAGGCCT	AGTCGCTCTT	GCTGAAACCT	TCAATGCAGT	GAGCGCCCAT	60
CTCATTGGGA	CCTACAGGCT	GAAGTTCTTC	CTCTGATGGA	CATGACCCCC	GTGTTGTCTC	120
TAATAACCTC	ACTTTCACTC	TGTTCCAGCC	ACACGGGGTT	TCTGTCTTTC	TCGGGTCATG	180
TCGGGCTTAT	GTGCCTCGGG	CCCTTTGCTC	ATGCTGTTCT	CTGCCTGGGA	TGCGCTTTAC	240
TGGGTGCCAG	GATGGTCAGT	GATTCCATTT	CTCTCAGAGT	CTATTCACAG	GTCCCCTTCT	300
CGGTCACGCC	TTCTCTGGCT	CCACTGTCTA	AAATTTCAAC	AGCTGCCTCT	GCCCCCGAA	360
CTTCATATCC	CCCTTATCTG	CCTTTTTTCC	TTCAGCTCTT	ACTTCCATCA	AATACAGTAT	420
GTATTTTAA	AAGTCTTATC	TTGTTCACGG	TCATTTTCTT	CCACAGGTAA	TTTTGGTAAA	480
CTTTGTAAGA	TTGATGATGT	TTAATACTGT	TTTGTTTAAT	ACAGTACCCC	CAGTTTAGCA	540
CACAGCTTTT	GAATGAATGA	CCAGTTTTTA	TTCCCCTCTG	AAGCGCTAAG	AGCTGCCGCT	600
GAGGTGGCAT	CTGTAGCNGC	TCCCGCTCCA	ACTCGAG			637

(2) INFORMATION FOR SEQ ID NO:676:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 513 base pairs
 (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:676:

GAACACGTCA TGAGGAAGGA	GCAGCGCAAG	GAGGAGAAGG	AGAAGCGGCG	CCTCGACCAG	60
CTGGAACGTA AGAAGGAGAC	GCAGCGCCTA	CTGGAGGAGG	AGGACTCCAA	GCTCAAGGGC	120
GGCAAGGCGC CGCGGGTGGC	CACGTCCAGC	AAGGTCACCC	GGGCCCAGAT	CGAGGACACG	180
CTGCGCCGAG ACCATCAGCT	CAGGGAGGCC	CCGGACACAG	CCGAGAAAGC	CAAGAGCCAT	240
CTGGAGGTGC CGCTGGAGGA	GAACGTGAAC	CGCCGCGTGC	TGGAGGAGGG	CAGCGTGGAG	300
GCGCGCACCA TCGAGGACGC	CATTGCAGTG	CTCAGCGTGG	CGGAGGAGGC	GGCCGACCGG	360
CACCCAGAAA GACGCATGCG	GGCAGCCTTC	ACAGCCTTTG	AGGAAGCCCA	GCTGCCGCGG	420
CTCAAACAAG AGAACCCCAA	CATGCGGCTG	TCGCAGCTGA	AACAGCTGCT	CAAGAAGGAG	`480
TGGCTCCGCT CTCCTGACAA	CCCCAAACTC	GAG			513

- (2) INFORMATION FOR SEQ ID NO:677:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 376 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:677:

GTCCATCCTG	AGCTCCATGG	AGAAGCCACC	CAGCCTCGGT	GACCAGGAGA	CTCGGCGCAA	60
GGCCCGAGAA	CAGGCCGCCC	GCCTGAAGAA	ACTACAAGAG	CAAGAGAAAC	AACAGAAAGT	120
GGAGTTTCGT	AAAAGGATGG	AGAAGGAGGT	GTCAGATTTC	ATTCAAGACA	GTGGGCAGAT	180
CAAGAAAAAG	TTTCAGCCAA	TGAACAAGAT	CGAGAGGAGC	ATACTACATG	ATGTGGTGGA	240
AGTGGCTGGC	CTGACATCCT	TCTCCTTTGG	GGAAGATGAT	GACTGTCGCT	ATGTCATGAT	300
CTTCAAAAAG	GAGTTTGCAC	CCTCAGATGA	AGAGCTAGAC	TCTTACCGTC	GTGGAGAGGA	360
ATGGGCCCCC	CTCGAG					376

- (2) INFORMATION FOR SEQ ID NO:678:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:678:

GAATTCGGCC	TTCATGCCTA	GCAGGAGGTT	TTATTGTAAA	GAGGCCGATT	GTACAGAGCA	60
AAGATTGTTC	TGACACGGGG	GGCTGGGTGG	TGGGACCCAG	AGGCCAGAGC	TGGGTGAAGG	120
ATGAGGGGTG	GCATCGCCCC	ATCCAGGCAG	TGGGCAGGGC	AGGGAGGACT	AAACGGCTGC	180
CTCCCAGTTC	CCTTCCCTGC	CCCTCATTAC	TGGGTAAGAG	GGAGCCAGGC	TATTTCCACG	240
GATCCAGGAG	AATATAGCAG	GAGACCCTCA	CCACCCCACA	CCATGCCCCA	AGGATACGGG	300

AGGTGCCCCA GTCTGGCTTT TGCAGTCGGC CAGCTCCCAG CCTCCTCGAG

350

(2) INFORMATION FOR SEQ ID NO:679: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 357 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: CDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:679: GAATTCGGCC TTCATGGCCT AGTTCTCACC GGGGAAAAAC CCACTGTTAG GATGGCATGA ACATTTCCTT AGATCGTGGT CAGCTCCGAG GAATGTGGCG TCCAGGCTCT TTGAGAGCCA 120 TGGGCTGCAC CCGGCCGTAG GCTAGTGTAA CTCGCATCCC ATTGCAGTGC CGTTTCTTGA 180 CTGTGTTGCT GTCTCTTA^A TTAACCGTGC TGAGGCTCCA CATAGCTCCT GGACCTGTGT 240 CTAGTACATA CTGAAGCGAT GGTCAGAGTG TGTAGAGTGA AGTTGCTGTG CCCACATTGT 300 TTGAACTCGC GTACCCCGTA GATACATTGT GCAACGTTCT TCTGTTATTC CCTCGAG (2) INFORMATION FOR SEQ ID NO:680: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 250 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:680: GGGGGTGGAA GGCGTAGTGC TTGAAATGCA GGGATCTGGC AGTCAGCAGA AGGATCTGAG 60 ACCCAGTGTC GAGGTTAAAA AAAAAACAAA AAACCAAAAA CCAATGCAGG AATCCAGTGG 120 GTGGAGTGAG GGGATCTGGG ATCCAGTGAT GGGGGCCCCA GGATCCAGGC ATTGTGGTTG 180 TCAGGATCCA GTGGTGAGGT TTGTTGACAT CCAGAATCCA GCAGCTGAGC TTGGAGATCC 240 250 (2) INFORMATION FOR SEQ ID NO:681: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 406 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:681: GGATTCCTAC AAAAATTGAG GCAGAAGATC AAAATCGGAG TGGTAGGCGG ATCGGACTTT GAGAAAGTGC AGGAGCAACT GGGAAATGAT GAATATTCAA AGTCATCTGG GTGAGGCCCT 120 AATCCAAGAT TTAATCAACT ACTGTCTGAG CTACATTGCG AAAATTAAAC TCCCGAAGAA 180 GAGGGGTACT TTCATTGAAT TCCGAAATGG GATGTTAAAC GTGTCCCCTA TTGGAAGAAG 240 CTGCAGCCAA GAAGAACGCA TTGAGTTCTA CGAACTCGAT AAAAAAGAAA ATATAAGACA 300 AAAGTTTGTA GCAGATCTAC GGAAAGAGTT TGCTGGAAAA GGCCTCACGT TTTCCATAGG 360 AGGCCAGATC AGCTTTGATG TCTTTCCTGA TGGATGGAAA CTCGAG 406

- (2) INFORMATION FOR SEQ ID NO:682:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 316 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:682:

GAATTCGGCC	TTCATGGCCT	ACCCTTCTAG	GTGTCATCTC	CTTCCCTCCC	TTTCCCCCAA	60
GACTCCCTCT	GGGCCCAGCC	AGCAGGTGAA	GCCTGACTTA	GGGAAGGGGG	GATTTCCAGG	120
GGAGGGGCCC	TGGCCCCCAC	TGACCCAGCA	TTGCTATCCA	CAGGAGGAGC	AGCCCCCACA	180
ACATCGATCC	AAGAGGGGGG	GCTCAGTGGG	CGGCGTGTGC	TACCTGTCGA	TGGGCATGGT	240
CGTGCTGCTC	ATGGGCCTCG	TGTTCGCCTC	TGTCTACATC	TACAGATACT	TCTTCCTTGC	300
GCAGCTGTCC	CTCGAG					316

- (2) INFORMATION FOR SEQ ID NO:683:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 394 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:683:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACCTGCC	TCGGCCTCCC	AAAGTGCTGG	60
GATTACAGGT	GTGAGCTAGC	ACTCCCAGCC	GACAGGTGCT	TCTTAAATGT	TTTCTTTGAG	120
CAGGAATTGG	TCCAGGAATT	GGTTCTCAAG	TTAGAAGGAA	AATTTGAGGG	GAAGAACTTG	180
TTTTTTCTCC	AATCAGTCTC	TGATTAAATA	GTTATTAGGA	AAAACTCCTT	GCTTATGTCT	240
TTGTATTGCA	CATTTTTATA	TATGTATATA	TGTGTAAATA	GAGATATTTA	TATATTCACA	300
GACAAACACG	TGTATGCACA	TTTCACAATG	GAGGAAGAAG	GGATATGGTG	TGCACTGAGG	360
TAAAGTGAGC	AGGGATACAG	AAGAGAAACT	CGAG			394

- (2) INFORMATION FOR SEQ ID NO:684:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 509 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (C) STRANDEDNESS: doubl
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:684:

GTCCTAACCT	TGGGTCCAAG	TTTCGTTATA	GTGGCAGGAC	ACAAGCGCAA	ACGAGAAGAG	60
CCAGTGCGTT	GATAGATCGC	CCAGCACCTT	ACTTTGAACG	CTCATCCAGC	AAACGTTATA	120
CCATGTCTCG	CAGCTTGGAT	GGAGCATCAG	TGAATGAAAA	CCATGAAATA	TACATGAAGG	180
ATTCTATGTC	TGCTGCAGAG	GTTGGTACTG	GCCAGTACGC	CACAACAAAA	GGCATCTCTC	240
AGACCAACTT	GATCACCACT	GTGACTCCGG	AGAAGAAGGC	TGAGGAGGAG	CGGGACGAGG	300
AAGAGGACAA	ACGGAGGAAG	GGGGAAGAAG	TCACGCCCAT	CTCGGCCATC	CGGCACGAGG	360
GAAAGACTGA	CAGTGAGCGC	ACGGACACCG	CAGCCGACGG	GGAGACCACC	GCCACTGAGT	420
CGGACCAGGA	GGAAGATGCA	GAGCTCAAGG	CACAGGAGCT	AGAAAAAACT	CAAGATGACC	480

TGATGAAACA TCAAACCAAC ATTCTCGAG

509

(2) INFORMATION FOR SEQ ID NO:685:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 441 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:685:	
GAATTCGGCC TTCATGGCCT ACCAAAGTGC TAGGATTACA GGCGTGAGCC ACTGCGCCTG GCCTCTTTCT TCTTTCTTGA ATTCTCTTCT TTTTATGTTC CTGGGAAAAT CCTACTCATT TTATATGATT TGGCTGATGT AAAGCCACCA TTGTCTTCCT AAGCAGAGAG GGTCTTGCTT TTGGGGTGCTG CACAACTTTG TGCAATTTTT CTGTTACATC ATTTATCTTT TGGGGATTGT TTATTTTCAT ACTTATCTCT CTTCCAGGAC CATGTTAGGG AGAGGTGTTT TTAATTTTTA CCTTTTCTGC AGCACTTAGC ACAGTGCCTA ATCATAGTAA ATATCACGTA AAAGTTGAAT GAAGGAATGG ATGTTTGATA TAGAGTTAGG ACACCTGTGT CCCAGGTCTGG CTTTGCTTTT CCTTTNACCC CCCACCTCGA G	60 120 180 240 300 360 420 441
(2) INFORMATION FOR SEQ ID NO:686:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 273 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:686:	
GAATTCGGCC TTCATGGCCT AGTTGGTTTA TGTTATGTAA AGTTATGTAG TTATGTAAAG GTGCTGAAAT GTCACTCTTG TGATTATGTT TTATTATATA AGGCTCTATC TTAGCAAACC AGGAGAGAAA TTCTCCTGAT GGCCTTGAAG AAGCAAACAG CCACCTGGTT AAGCCCCTGT GGATAGTGCC AAGTGGCAGG AAAGTGGGAG CCACCTCTAG GACCTGAGGA TTAAAGTCAG TAAGAGCTGG GACCTCACTC ATGCAGACTC GAG	60 120 180 240 273
(2) INFORMATION FOR SEQ ID NO:687:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:687:	
GAATTCGGCC AAAGAGGCCT AGGGCTCTGG ATTTTGAGTT TCGGGCTCTA GATGGAATTG AGAAGGTCCA ACTTGCTCAG AGGGCCCTGG AGGCTCATCT GACTTCACCC GGATTTTCCT CGAG	60 120 124
(2) INFORMATION FOR SEQ ID NO:688:	

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 426 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:688:	
GAATTCGGCC AAAGAGGCCT ATGCCATCTT AGTCCCTCTT CCCAACCCCA TTTTTTAGTT ACTTTCCTTT CATTAAAATA TCCTTATGCA CTTACAAATA AAACTAAGTC CCAAGAGGGC AACAAAATAT AAGATCTTA ATGATACAAA AACAAATCTT TCTGATACTA GATCTTTAT ACTAGAAAAA TAAATTCTTG TGCTTGAACA TCATTTTTAA GCACTTAGTG AATTGAGAAT CTGAACTGCC ACTTGAAATA TTCCCGGGAA AGAAACATTA TGAACCAAAT GAAGGAACAT AGCTATTCAA AGGGACATAT TTTTGTACTT GTTTTGTCCC AATTTCTGCT ACATAGACTG CTCCAGTCTT TCTGTCGACT CTAGGAGATG CCTAAACCGT CGATTGAATT CTAGACCTGC CTCGAG	60 120 180 240 300 360 420
(2) INFORMATION FOR SEQ ID NO:689:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 205 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:689:	
GAATTCGGCC AAAGAGGCCT ATAGTTTTT CATGTTACAT CTTTTAGATT ATTTCTTTT TAATCTATCT GTGACTATAT TTAAAGTCAA TTCTTGTTTT TTCCTTTTCC TTTTTGTGG TAACGGGGTC TCGCTGTGTT GCCCAGGCAG ATCTCAAACT CCTGGGCTCA AGCTGTCCTC CCACCTCTGC CACCCTAGGC TCGAG	60 120 180 205
(2) INFORMATION FOR SEQ ID NO:690:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:690:	
GAATTCGGCC AAAGAGGCCT ACGTTGATTG AGCACTGAGC CCTTACTACG TGCTAGGCAT GGTACATGCA TGGCCTTATT TAATCCTATC AACCCTCGAG	60 100
(2) INFORMATION FOR SEQ ID NO:691:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 302 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:691:

GAATTCGGCC	AAAGAGGCCT	ACATCATACA	AGTCGTCGTA	AAGCAAATCT	GAGCTGTTGT	60
CATTGGAAGG	CACTTTAGTT	TTGATGCAGT	ATTCCGCCAG	GGTTGTGGGG	ACCTTCACTC	120
CATCCTTTTC	TGCTTCGGCC	TTAGTGGCTG	AAACTTGTTT	CCTAATAATT	TCAGCATATT	180
CTTTGTCTTT	TCCTTTACTG	TCTCTCCATT	TCCTGAACAT	AACTGAAGCA	TCGACATTGG	240
CTGGGGAGAA	GGTGTTGGGC	TCATTAAGCA	GTGAGATTAC	ACTTAATAGG	ATAGTCCTCG	300
AG						302

- (2) INFORMATION FOR SEQ ID NO:692:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 662 base pairs
 - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:692:

GAATTCGGCC	AAAGAGGCCT	ACCAAATACC	AGGCTACCAT	GGTCTACAAG	ACTCTCTTCG	60
CTCTTTGCAT	CTTAACTGCA	GGATGGAGGG	TACAGAGTCT	GCCTACATCA	GCTCCTTTGT	120
CTGTTTCTCT	TCCGACAAAC	ATTGTACCAC	CGACCACCAT	CTGGACTAGC	TCTCCACAAA	. 180
ACACTGATGC	AGACACTGCC	TCCCCATCCA	ACGGCACTCA	CAACAACTCG	GTGCTCCCAG	240
TTACAGCATC	AGCCCCAACA	TCTCTGCTTC	CTAAGAACAT	TTCCATAGAG	TCCAGAGAAG	300
AGGAGATCAC	CAGCCCAGGT	TCGAATTGGG	AAGGCACAAA	CACAGACCCC	TCACCTTCTG	360
GGTTCTCGTC	AACAAGCGGT	GGAGTCCACT	TAACAACCAC	GTTGGAGGAA	CACAGCTCGG	420
GCACTCCTGA	AGCAGGCGTG	GCAGCTACAC	TGTCGCAGTC	CGCTGCTGAG	CCTCCCACAC	480
TCATCTCCCC	TCAAGCTCCA	GCCTCATCAC	CCTCATCCCT	ATCAACCTCA	CCACCTGAGG	540
TCTTTTCTGC	CTCCGTTACT	ACCAACCATA	GCTCCACTGT	GACCAGCACC	CAACCCACTG	600
GAGCTCCAAC	TGCACCAGAG	TCCCCGACAG	AGGAGTCCAG	CTCTGACCAC	ACGACCCTCG	660
AG						662

- (2) INFORMATION FOR SEQ ID NO:693:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:693:

GAATTCGGCC	AAAGAGGCCT	AAGCCCCCAA	AACACGCTCT	TTTGTGCCTC	CCCTCAAATC	60
CTTCACAGTG	TTCTTCCATA	TCCACTCCTT	CCAGGAAGCA	TGTTCTCACT	ACCCCAGTTC	120
ATGTGGGTTT	CTTCCCTCTC	AGAATTTCTA	TCATGCCCCT	ATAAGTTTAG	CAAATTGTCC	180
TTCTCTAATT	GTTTCACATC	TGTCCATCCG	ATATCCCAGG	AGGACTGTCA	GCTCTATGAA	240
GGCAGGGGTT	GTCTTTCCTT	TACCATGCCT	ACCATGCCTT	ATAGTGTTAA	TAAATTAACC	300
TACCCAGAAA	TGTTTCTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:694:
 - (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 357 base pairs

WO 98/45437 PCT/US98/06956_

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:694:

GCGATTGAAT	TCTAGACCTG	CCTCAATCCC	CTCCCTACTT	GCTTTTTCTT	AGCATATAAA	60
AGTCCACAAG	TTTTACTCAT	CTTTTTAAAA	AACGAAAACA	TCCTTAGACC	GTGTCCTCCA	120
TTAGTTGCTA	TCCTGCCTTC	TTCTCTCAGC	TGAGCTGTCT	GAAACATGCT	AACATGCTTA	180
TACAATACTT	GCTGTCCTGC	CTTCTGCTCT	CAGCTGAGCT	CTCTGAAACA	TGCTAACATG	240
CTTATACAAT	ACTTGCTGTC	CTGCCTTCTC	CTCTCAGCTG	AGCTCTCTGG	AACATGCTTT	300
TTATACAATA	CTTGCTGTCC	TGCCTTCTTC	TCTCAGCTGA	GCTCTCTGGA	ACTCGAG	357

- (2) INFORMATION FOR SEQ ID NO:695:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 225 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:695:

GAATTCGGCC	AAAGAGGCCT	ATGGGTTTTT	AAAAATTTTG	TTTTTATTTT	TTCCTTTGAT	60
GTGCAGAGGC	TGTTTACTTT	GATGCAGTCT	CACTTGTTTA	TATTTTATTT	TGTTGCTGGC	120
CTAGGCCTCT	TTGGCCGAAT	TCGGCCAAAG	AGGCCTAGTC	GGGTGTGGCA	GTGCCATTCT	180
GCAGTCCCAG	CCACCGGGAA	GACCGAAGCG	GGAGGATCAC	TCGAG		225

- (2) INFORMATION FOR SEQ ID NO:696:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 314 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:696:

GAATTCGGCC	AAAGAGGCCT	ATCCGCTTCT	GTTGCAGCTG	GCGGTGCTCG	GCGCGGCGCT	60
GGCGGCCGCA	GCCCTCGTAC	TGATTTCCAT	CGTTGCATTT	ACAACTGCTA	CAAAAATGCC	120
AGCACTCCAT	CGACATGAAG	AAGAGAAATT	CTTCTTAAAT	GCCAAAGGCC	AGAAAGAAAC	180
TTTACCCAGC	ATGGGACTCA	CCTACCAAAC	AACTTTCTGT	CGTTGTGCCT	TCAAACAATG	240
AAGAAAAACG	GTTGCCTGTG	ATGATGGATG	AAGCTCTGAG	CTATGTAGAG	AAGAGACAGA	. 300
AACGAGACCT	CGAG					314

- (2) INFORMATION FOR SEQ ID NO:697:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 353 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:697:

GAATTCGGCC	TTCATGGCCT	ACAGAGTGTG	GACGGCCCAC	TGGGTTGGTG	GTGGTGGGTG	60
CCCGTCACAG	GGCTGGAGGT	GTGGCCGGCC	CACTGGGTTG	TGCTTTCTGC	CGTACGTCCC	120
TTCCCATGAG	GATGAGATGA	CCCATCTGTT	GCATCCCGGC	TGCTGATAAA	ACAAGACCCT	180
CGGAGCCAAG	AAACAACACT	GAGTTCCAGA	TTTCGGAAGG	TTCACGAGTG	TTGCCGACAC	240
GCCCTCCCAA	CTGCAGACAT	CCTCCCTGGA	GGACCTGCTG	TGCTCACATG	CCCCCTGTC	300
CAGCGAGGAC	GACACCTCCC	CGGGCTGTGC	AGCCCCCTCC	CAGGCCCCTC	GAG	353

- (2) INFORMATION FOR SEQ ID NO:698:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 449 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:698:

GAATTCGGCC	TTCATGGCCT	AGATTGACAG	AGGTCAGTTG	TCACTTCTTG	CCTCTCTCCC	60
CTTCCAGCAA	CATGTATAAT	CCTGTGAGTG	TTTCTTCAGC	ACCCTTCTCT	GTTGTTTACA	120
CTACTGCAAG	AGCCTCCCTA	AGTGGTCTGC	CTGTTTCCAC	CCTGTTGTCT	TGGAATTTAG	180
TTTTCTCGCA	AAAGCCAGAG	AATGTTTTCA	GAAGGTAGCT	CTTGAGCAAC	TTCCCACTTT	240
CTTGGAGGGG	AGATCCAGCT	TCCCCAACAA	GACCAGCAGG	CCCCTGTGCG	GCCTGGCTCC	300
TGTTCACCCT	ACCAGTCTTG	GCTCAGGCTC	ACGGCTGGAA	TATGCCGAGC	TCTTTCTTGT	360
CCTGGGGCCT	TTGCACTTGG	CTTCCCTCTG	TCCAAAATCA	TCTTCCTGTA	GCTTTGTGCT	420
TGCCTAGCTC	ATCATCATAG	CAGCTCGAG				449

- (2) INFORMATION FOR SEQ ID NO:699:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 340 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:699:

GAATTCGGCC	TTCATGGCCT	ACAGAGAACT	GAGGAAAACC	AACTACGTGG	AGAATCTCAA	60
AGAAAAAGC	GAGGGAGAAG	CTTCACTGTA	TGAAGATAGA	ATAATAACAA	GAGAGAAGGA	120
CATGAGGAGA	GTGAGAGATG	AGCCCGAGAA	GGTGGTGAAG	CAGTGGGACC	ATAGTGAGGA	180
TGAGAAAGAG	ACAGATGAGG	ACGATGAGGC	TTTTGGGGAA	GCTCTGCAGA	GCCCAGCAAG	240
CGGAAAGCAG	AGTGTGGAAG	CAGGAAAAGC	CAGAAGCGAT	TTGGGAGCAG	TTGCCAAGGG	300
CCTGTCAGGA	GAATTAGGCA	CAAGATCAAG	AGGGCTCGAG			340

- (2) INFORMATION FOR SEQ ID NO:700:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 380 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:700:

GAATTCGGCC	TTCATGGCCT	AAGCCAAGCA	AGGCTGTACC	TTTAATTACT	GCTGCCCTCA	60
TTTGCATCTG	GCTGCCCTCA	TTATAGTGCT	ATTAGCAGAG	TGCAGGGGTC	CTCCTGCTGG	120
CCCATCGGGA	GTGGTGCGTG	CACAGTTGTG	GGGCCTTGCT	TTGGTGGTCT	TTGCTGCCTT	180
CTGGGCAAAA	TGAAGGATTT	GGAGTAGACA	GCAAGCAGGC	ATACATCCTG	GGCCAGAAGC	240
AGCCTGCGGA	GCTCATCGTG	GCTTGCCTTA	AATTGTTTCT	CAACAATAAA	GTTGTTGAAA	300
AACAATTTGT	GTTTTCTTTC	TCCTTATTAA	AAACCCAAAA	TTATATTCAT	TATAGAAAAT	360
TAAAGAAGAT	AGCTCTCGAG					380

- (2) INFORMATION FOR SEQ ID NO:701:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 319 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:701:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACCTGCC	TCAGCCTCCC	AAAGTGCTGG	60
GATTATAGGC	GTGAGCCACC	GCGCCCAGCC	GAAAATCTAA	AGATATTGAA	AAGATACAAA	120
GGAGCACATT	ATGAACATTT	TTTTCGTATC	ACTGAGTATT	TTATAACTGC	ATCATTGATT	180
TTAAAAGAAT	TCATGACTTT	GAAAACTAAT	ATTCTACAAA	GTAGCTTTTG	ATTTAACATG	240
AGATTTTATA	TATGTGCTTA	TCTTGGTTCT	CTATGAAACC	CCATTGAAAT	AAGAAAATGT	300
AAACACCAGC	CAACTCGAG					319

- (2) INFORMATION FOR SEQ ID NO:702:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 549 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:702:

GAATTCGGCC	AAAGAGGCCT	AATAGTCAAG	ACCTTTGCAG	TTTTGATCAC	AGAAATATGA	60
AAGATTACAC	AGCTACAGCT	ATATGAATGA	TAAAAGTGAC	AGCTATGGAT	TTTTAAAGTT	120
ATAAGTTGCT	ATACTACATA	TATGTAATGT	GTGTGTGTAT	AGTGTGTAGG	TATATATATT	180
TATATTTATA	CACACACTAT	ACATGTATTT	TAAAATATTG	AAAATCCAGA	ATTATTTAT	240
GGTAAAAATT	ACTAAAATTG	ACTTCACATG	CTGAATGAAG	AGAGCCTGAG	TAGACCAACA	300
AACAAATGAA	AAATTAAGAC	GGTTAGAAGA	TACGCTTTCT	AAAAGAATAC	ATTTAGAATC	360
TAACTTTAAA	ТАААААААТ	CCTACTCTCC	TGAGCCAGAG	TGGTCTCAGA	GAGACTCCGA	420
GAACCTAATT	TTTTACAAGT	AAAATCTTTG	AAGAATTGGT	AATTGCTAAA	TTTTTCCAAC	480
ATACTATTCT	ACAAGACTAA	CCTAAAACTG	ATTATAAGAA	CTAGGTGAGG	AGGGCCGGCA	540
AAACTCGAG						549

- (2) INFORMATION FOR SEQ ID NO:703:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 758 base pairs
 - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:703:

GAATTCGGCC	AAAGAGGCCT	ATCGAGCCAC	TGCACCTGGC	CGATGTGTTC	TGTTTGAAAT	60
CTTACTCAAA	AGTATTTGAA	GAGTTGTGTA	TAGTTGTATG	${\tt GATATGTCTG}$	TAGTAAACAG	120
AAACAAATTG	CTTCAGTTTC	TCTTTACTTA	TTTTCTAGGT	TACAGTACCT	TTACCAGCAT	180
CCCAGCTTTC	CTTGCCTAAT	TTTGGATCTA	CAGGGCAACC	TCTAATTGCT	TTGCCTCAGA	240
CTCTTCAGCC	CCCATTACAG	CATACCACTC	CCCAAGCACA	GGCTCAGAGT	CTGAGTCGTC	300
CTGCACAAGT	AAGCCAGCCT	TTCAGAGGAT	TAATTCCTGC	TGGAACACAG	CATAGCATGA	360
TTGCAACCAC	CGGAAAAGTA	AGTAAAGAGA	CATTTGCACA	GGTTATTTGA	GAATTTAAGG	420
TAGTGTGTTC	AGATATATGC	ATCTGTGTTA	TCTAAAAAAC	TAAAATGCGT	CAGTTTTTAC	480
CACCCTGCAA	AAATCTCAAA	CCCCAGTATA	TTTACATTTT	ATCTATTTAC	TTTTAATGTG	540
TTTGGCCCCA	TCTAGTTTTT	ACCTAATAAC	AAAGAATTCA	CAAATTTATT	GGAAGAATTG	600
GATTTATAGT	GTCTCTTCGG	CTTATTTAAT	TATAAGTCTG	TTTGGTCAGG	TAATTCCATA	660
ATACTTGAAG	CCTAACTATA	GGAGTTTTGT	ACTAAGGTTC	TTTGCCCTTT	CCTAGATTAC	720
GTCTTCACGT	ATAGGACATG	TAAACACAGC	AACTCGAG	•		758

- (2) INFORMATION FOR SEQ ID NO:704:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 663 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:704:

GAATTCGGCC	AAAGAGGCCT	AAGATGGCCT	TCCCATGTTA	TGGCTACATG	GCTGTGATAA	60
CAAGTAGAGT	TATGTGTCTG	CGCTCTAAAC	TCACTGAGTC	TTGCAGGATG	TAAACATCCT	120
AGCTCAGCCT	ATCCTTGACC	AAAGCACANT	CATGCTCCTT	ACAAACTCCA	ACCAGCCTGC	180
ACACTGGGAG	GAGCGCGTGC	TGGGCTAGAG	CCACAGAATT	TTGTACCGTT	GGCAGCAGGG	240
AGGAGCCTGG	CCCCTCCTTT	CCTAGGTAGA	ATCTGGAATT	CAATCTGTGA	GGTGGGAAGC	300
ATATACTAGG	AGGACTTTCA	CTCTGCTGAG	TCCCTGTTCC	CCCTCCCTTT	TTTTTCCTTT	360
TTGCCCAATA	AACCCCTTTA	TTCTCACACT	TCAAATTGTC	TGTGAGACTA	ATCTTTTGTG	420
GCCATGTGAC	ATGGACCCTG	TCTGTAGCTG	AAACTAAGAA	AAAGCCCCTC	CCGCACAGTC	480
TGATGTTTCC	TCAGTCAGAC	ACTGCAAGCT	GTGATGTTGG	GGTGAGTACA	GGATATTTGG	540
CAATATTTGC	AGACAGTTTT	GGCTGTCAGA	GAGGAAGATG	CTGTATGCAG	ACACACTTGA	600
CAGCAATAAC	TTAAGCCCAC	CCTGAGACTG	ACTCTGCATG	GTGATGCACC	TGAAGGCCTC	660
GAG						663

- (2) INFORMATION FOR SEQ ID NO:705:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 334 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:705:

GTGGTGGAAT	TACAGGCGTA	AGCCACTGCG	CCTGGCCCCA	AGTGTCCATT	TTTTAATTTA	120
GTAATTCTAA	CCTAGGTATT	TTTCCTGCAG	TACAAAATGA	GGATAAAGCT	TTACATGAAA	180
ACATGTTGTT	CCTATTATGT	TTATTGCAGC	AAAAACACAA	CCTAAAAACC	CAATCTGAGC	240
AGGTTTTAAC	TAAATACTAA	TAATTCTGAC	ACTAGAACGT	TATGTAGCTA	ACAAAAATAT	300
GTCGTAAAAA	TAATCATGTA	GAAACTGGCT	CGAG		•	334

- (2) INFORMATION FOR SEQ ID NO:706:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 369 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:706:

GAATTCGGCC	TTCATGGCCT	ACCGAGCTTC	AGAGCATCAG	CAGTGTTCCT	CCTTCACTGT	60
GACGCTTGTC	CTCACTTCCC	AGGTGAGGAG	TCTAAGAAAA	CAGCCTTTCC	ATCAGCCCCT	120
GTCGTGACAG	ACCCTCCAGT	GGGATGGTAG	TGGCTGCCTC	ACCCATTTAC	AGGGCAACCC	180
AGTTTTGCTC	CTTCTGCCTT	GAAATTTGTT	CCTCCCAGAA	ACTGTCCCTC	ACAAGGCATG	240
AACAATCAAT	AGAAGATATA	CGTGGTCTTC	CCAGCACTAC	AGCTGCAGAA	TGAGCTGTGG	300
AGTGCCCCGT	CCGGAGTCCT	GAACAGCTTC	AAACTTTTCC	CCTTTAGAAA	TGCCTAACAC	360
GCCCTCGAG						369

- (2) INFORMATION FOR SEQ ID NO:707:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 365 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:707:

GAATTCGGCC	TTCATGGCCT	AGGCATCCTT	GGTGCGGCAT	CCTTGGTGCA	TTATATCAGG	60
AGGCAAATGA	TGTGGGTTTG	TCCCATTGTT	TGTAATGGTA	ACATTGGTTG	CTTGGTTAAG	120
GTGAAGGGTG	CCAAGCTTCT	CCACTGTAAA	GTTCCTATTT	TTTTCTCTGT	AATTAATAAG	180
TAATTTGTAT	GATACTTTGA	GATAACAAAG	TAGACTGTTC	ATCAAACTTT	CATCAATGAA	240
TTTAACATCC	AAAGACGCCT	CAAGAATGAT	CATCAAAAGC	AGCCTACTAA	TGACTGTCAT	300
TTACCATTTA	ATACATTTCA	AACAGTGCAC	GTGCTCTGTG	ACATATTCTG	GGAAGGAATC	360
TCGAG						365

- (2) INFORMATION FOR SEQ ID NO:708:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 436 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:708:

GAGCAAAGAG	CATGAGAAGC	TGATGGAGGG	AGAACTTGAA	GCTTTGCGGC	AGGAATTTAA	120
AAAGAAAGAC	AAGACGTTGA	AAGAGAATTC	CAGAAAGTTG	GAGGAAGAAA	ATGAGAATCT	180
CCGAGCAGAG	CTACAGTGTT	GTTCTACACA	ACTGGAATCC	TCTCTCAACA	AATACAACAC	240
CAGCCAGCAA	GTCATCCAAG	ACTTGAATAA	AGAGATAGCC	CTTCAGAAGG	AGTCCTTAAT	300
GAGCCTGCAG	GCCCAGCTGG	ACAAAGCTCT	GCAGAAGGAG	AAGCACTATC	TCCAGACTAC	360
CATCACCAAA	GAAGCCTATG	ATGCATTATC	CCGGAAGTCA	GCCGCCTGCC	AGGATGACCT	420
GACACAAGCC	CTCGAG					436

- (2) INFORMATION FOR SEQ ID NO:709:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 383 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:709:

GCTGCTCTAT	ATCTTAGAGA	AAATAAAAGA	ACCACATGTT	GCTTCCCTGC	CTGCAAGCTC	60
TTCTGAATTC	ATCACCATTC	ATGTTCCTTC	CTTCAGGGGA	AATGAAGGCA	GATTGTTCTG	120
TTGGTGCTCA	CAGATCTCTT	TCTGTTCTGA	TACCCTCCTC	TTCCTCTCCT	GCTTCTTTCC	180
CTTCATCATG	TGCTCCTATA	CAAGTCTCTC	CCAACTTTAA	AACAAAAACA	AACCCTTCCC	240
TAAATCTTGT	GTTTGTTCCA	GCCATTAGAC	TGTATCGTCC	TTGCCATCCA	CGTTATTGGA	300
AGAAGGCCAG	CTCACCTCTA	CTCCCTTTCT	GCCCTTTCCC	TCTTAATCTG	CTGTCCTCTG	360
ATTTCTGCCC	CCACAAACTC	GAG				383

- (2) INFORMATION FOR SEQ ID NO:710:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 496 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:710:

GAATTCGGCC	TTCATGGCCT	AGGGGCCTGA	AGATCTTCGG	GTATTTGGCT	CCCAGAATCT	60
GACCACAGTG	AAGCTAAAAG	${\tt GGGTGGGTGA}$	CAGCTTCAAG	AAGTATCCTG	ACTACGAGTC	120
CAAGGGCATC	AAGGCTCACT	TCAACCTGGA	TGAGAGTGGC	GTGCTCAGTC	TAGACAGGGT	180
GGAGTCTGTA	TTTGAGACAC	TGGTAGAGGA	CAGCGCAGAA	GAGGAATCTA	CTCTCACCAA	240
ACTTGGCAAC	ACCATTTCCA	GCCTGTTTGG	AGGCGGTACC	ACACCAGATG	CCAAGGAGAA	300
TGGTACTGAT	ACTGTCCAGG	AGGAAGAGGA	GAGCCCTGCA	GAGGGGAGCA	AGGACGAGCC	360
TGGGGAGCAG	GTGGAGCTCA	AGGAGGAAGC	TGAGGCCCCA	GTGGAGGATG	GCTCTCAGCC	420
CCCACCCCCT	GAACCTAAGG	GAGATGCAAC	CCCTGAGGGA	GAAAAGGCCA	CAGAAAAAGA	480
AAATGGGGAA	CTCGAG					496

- (2) INFORMATION FOR SEQ ID NO:711:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 475 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:711:

GAATTCGGCC	TTCATGGCCT	AGTATGGAAG	GTGGAACTAA	AACTGAAATG	ATCAGTTCAC	60
ATATTTGTAA	ACTGCGTATT	TTATATCAGT	CGCTGGATTA	GGCCCCTAGA	GACAGTGGTG	120
GCTAAGTGAT	AAAGTCTTTG	CGCTTGTGGC	ATTTTATAGT	GTAGTGGGAA	GACAGAAAGC	180
AAACAAGTAG	AGAATCATAT	ATGTAATGTG	ACCTCAGGTC	CAGCTAAGCG	CCAGACAGAA	240
GAAAAAAGTA	AGGTGAAGGT	AGAGGGGTTG	GAGCAGGAGG	AAGGTGTTAT	TTTAGGTAAA	300
GTGGCCAGGG	AAGGCCTTTT	GAAGAATTGA	TATCGATTCC	AAAATGATGA	GAAGGTGCAA	360
TTGTGCCACC	ATGGAGGAGA	AGAGCTTTCT	AGGCAGAGGG	CAGGTGCAAA	GATGGTAGGA	420
ACAAACACGG	CTTGTTGAAA	GAACAGCAAT	GTTTGAGGAA	TGAGCCAGAC	TCGAG	475

(2) INFORMATION FOR SEQ ID NO:712:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 608 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:712:

GAATTCGGCC TTC	CATGGCCT AATTTTGCAT	AAAACCTCAT	CAATCTCTGC	CAATCACTGA	60
GCCCAAAACC ATT	TTTCACTT TGTTTTAGGT	ATTTATAATA	ACAGCACTCC	CACTTCTCAT	120
GATCAATTTC CAT	CTTCAGC GGTTCAGGCT	GCTTTAATAA	AGTTCCATAA	CCTGAGTGGC	180
TTTTAAATAA CGG	SAATGCAC ATCTCACAGT	TCTGGAGGCT	GGAAGTCCAA	CAGCAGAGTG	240
CCAGCATAAT TGG	GTTCTGG TGAGAGAGCT	CTCTTGGGTT	TCAGACTGCT	GCCTTCTCAA	300
TGCAGCTTCA CAT	rggtggac agaaagagct	CTCAAGAGTC	ATTTTTAAGG	GCACCAATCT	360
AATTTATGAA GCC	CTCCACCA TAATAAGCTA	ATTACTTCCC	AAAGTGCTGA	GATTACAGCT	420
GTCAGCCACC GTA	ACCTGCCT GGGAATTTTT	TTAAAGCTCA	AATTGGATAA	GAGGGTTATA	480
GGAATATATT CAT	rctatcat atagaaaaga	ATATGTGCTC	AGTCCCAGGA	AATAGAAAAT	540
ATATTACCTT ATT	TTATACTG TTTTAATTAA	TGCTTTTTAA	AATCTGATTA	ACTCTGGGAG	600
AGCTCGAG					608

- (2) INFORMATION FOR SEQ ID NO:713:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 531 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:713:

GAATTCGGCC	TTCTTGGCCT	AGTGCACTCC	TGTAATCCCA	GCTACTCGGG	AGGCTGAGGC	60
AGGAGAATCA	CTTGAACCCA	GGAGGTGGAG	GTTGCAGTGA	CCCAAGATCA	TGCCACTGCA	120
CTCCAGCCTG	GGTGACAGAG	CGAGAACGTC	TTTAAAAAAA	TTAAAAAAAA	AAAAAAAAGA	180
TTGCACAAAT	CAGACAGTGA	CCCAGAGCTC	AGCCTTGAGG	AAAGTCAGTG	TTGGGGAGGG	240
GAGGGCAAAG	AAGCAAGTAA	AGGTTTAGCA	GACATGGCAC	CTCAGTCTGG	ACTTGAAGGA	300
GGGCTAGGCA	CAAAGGAAGG	GGAACATGTC	AGATGAGAAA	CACGTGAAGG	TTCAGCCAGA	360
TGAGCAAGGA	AGGTTGGTTA	GAAAGAGGAG	CTGCTGGTGT	GGCTCCTGTG	AACACAGGTA	420
GATAGGGCAC	GATAGAGTCA	GGCAGTTAGA	AGCCAAGCTG	AGGAATCGAC	ACTTGATTCC	480
ATAGGTAAGT	AGGGGAACTT	GAGGATGTTT	AATCAGAAAT	GAGATCTCGA	G	531

(2) INFORMATION FOR SEQ ID NO:714:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 499 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:714:

GAATTCGGCC	TTCATGGCCT	AATTTATCCC	ATCCTTATCC	CATCCTTATA	AGGAATAATG ·	60
TATTGAATAA	AGATTGTATC	AGTATTTGTA	ATTCAATAAA	CCAGAACTTG	TGGAAATAAA	120
TATGTAGGAG	ACATAAATAT	GGTGTCCTCA	AATTGAATTA	TGTGGGAAAA	AAGTGGGGTG	180
GAGTTAAAGT	CCAAGCCAAT	AAAGTTGTAA	CATTAAAGAA	AGACAGGTAT	GGGATGCAAG	240
GTGCAAAGAA	AAGGTCATCA	TATCTCATAC	TGGGGTGAGA	TAGAAGACTT	CCTGAAGTAG	300
GCGATGCCTA	TATTGAATCT	ATAAGGACAA	ACTGGCATCA	ATATGTCAGG	GAAGACAGGT	360
TGAAGGTGGT	CCTGCCAGAG	AAAGGAGCAA	GGATAAAGGC	AAGGAAGCAT	GTAACGTAAT	420
TGTTTGTGGA	GAAACCTCAA	ATCGGCTGAG	GAAAAACGAC	TCAGGTATGT	AGTAGGGCAC	480
AGTATAAGTA	GGTCTCGAG					499

- (2) INFORMATION FOR SEQ ID NO:715:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 430 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:715:

TTCATGGTCA AGGATCCGGC TGGCTTTTT GGTGTCTGCT GTTTTCACAT CTTCCTCCAT GGCCAAGGAA AACACGTGTT GATGAGACAT TTTTTTACCA CAGTCACGTT TTAAGTCCTC TGACTGAAAT GTGAAGGTCA TTTCCCGCTT AATGCTCCCC ACCTGTGAAA TGAAACACAG AAATTCTTAC TCACATAAAA CATCACCTTT GTACGACTAC TGCAGATGGC GGTGAGGAGA GATTACAGAC ACTGTCCTTC CTGTTCATCT GAAAGATTGT ATAATTTTAA TAAGAAAAAAT	GAA	TTCGGCT	TCATGGCCTA	GAGATTTAAT	GTTCCCTTAC	CTTGCTGGAG	GAACATCAAT	60
GGCCAAGGAA AACACGTGTT GATGAGACAT TTTTTTACCA CAGTCACGTT TTAAGTCCTC TGACTGAAAT GTGAAGGTCA TTTCCCGCTT AATGCTCCCC ACCTGTGAAA TGAAACACAG AAATTCTTAC TCACATAAAA CATCACCTTT GTACGACTAC TGCAGATGGC GGTGAGGAGA GATTACAGAC ACTGTCCTTC CTGTTCATCT GAAAGATTGT ATAATTTTAA TAAGAAAAAAT	GTT	'GGAGGAA	ACAACTTTTC	TTTTTTGCTC	AAGGAGACAG	ATGGAGCGAG	TGTTTTCTTT	120
TGACTGAAAT GTGAAGGTCA TTTCCCGCTT AATGCTCCC ACCTGTGAAA TGAAACACAG AAATTCTTAC TCACATAAAA CATCACCTTT GTACGACTAC TGCAGATGC GGTGAGGAGA GATTACAGAC ACTGTCCTTC CTGTTCATCT GAAAGATTGT ATAATTTTAA TAAGAAAAAAT	TTC	ATGGTCA	AGGATCCGGC	TGGCTTTTTT	GGTGTCTGCT	GTTTTCACAT	CTTCCTCCAT	180
AAATTCTTAC TCACATAAAA CATCACCTTT GTACGACTAC TGCAGATGGC GGTGAGGAGA GATTACAGAC ACTGTCCTTC CTGTTCATCT GAAAGATTGT ATAATTTTAA TAAGAAAAAAT	GGC	CAAGGAA	AACACGTGTT	GATGAGACAT	TTTTTTACCA	CAGTCACGTT	TTAAGTCCTC	240
GATTACAGAC ACTGTCCTTC CTGTTCATCT GAAAGATTGT ATAATTTTAA TAAGAAAAAT	TGA	CTGAAAT	GTGAAGGTCA	TTTCCCGCTT	AATGCTCCCC	ACCTGTGAAA	TGAAACACAG	300
difficulties in the contract of the contract o	AAA	TTCTTAC	TCACATAAAA	CATCACCTTT	GTACGACTAC	TGCAGATGGC	GGTGAGGAGA	360
GCAACTCGAG	GAT	TACAGAC	ACTGTCCTTC	CTGTTCATCT	GAAAGATTGT	ATAATTTTAA	TAAGAAAAAT	420
	GCA	ACTCGAG						430

- (2) INFORMATION FOR SEQ ID NO:716:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 471 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:716:

GAATTCGGCC	TTCATGGCCT	AGACCTTCTG	GGTGAACGAG	GGCAAGCACG	CCAAGTTCCG	60
CTGCTACGTG	ATGGGCAAGC	CCGAGCCCGA	GATCGAATGG	CACTGGGAGG	GCCGCCCGCT	120
GCTCCCGGAC	CGCCGCCGCC	TCATGTACCG	CGACCGCGAC	GGCGGCTTCG	TGCTCAAGGT	180
GCTCTACTGC	CAGGCCAAGG	ATCGTGGGCT	CTACGTCTGC	GCCGCGCGCA	ACTCGGCGGG	240
CCAGACGCTC	AGTGCCGTGC	AGCTGCACGT	GAAAGAGCCC	CGCCTCCGGT	TCACACGGCC	300
CCTGCAGGAC	GTGGAGGGCC	GTGAGCACGG	GATTGCCGTG	CTGGAATGTA	AAGTACCCAA	360

(2) INFORMATION FOR SEQ ID NO:717:

CTCCCGCATC CCCACGGCCT GGTTCCGTGA GGACCAGCGG CTGCTGCCCT GCCGCAAGTA CGAGCAGATC GAAGAGGGCA CTGTCCGGCG CCTCATCATC ACAGGCTCGA G

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 397 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:717:	
BAATTCGGCC TTCATGGCCT AGCCACTCTT AGCAACACAG ATTTTCTTCC AAATTATGCC TTGAAGCTGC TCCCGGAGCC ACCCGCTCAT CAGCACCCTG CTCCTGTGGT CCTTCTCGTG AAAGGCAGAG GGGAGATGCC TGTTGCCCGC AGTCTTCTCT GCAGCTGCCG TGGGAACAGG CACCTTCCCG GCTGCTGGGG ACACAAGGAG GGGGAGTCAC CGTGGCTTGC TCACTTTCCA BATCAGCCAA CTGCAGAACA TTTGTTGTTG TTTAGATCCC ACGTCTGACG GTTTAGAACA GCTTTTATAA CATGGTTAAA CATGTTTACA AAGCAAGGGA GACATCTCTT ACCTTGACAA CACGAGGCTC CCACAGACCG CCTTCCCCCA GCTCGAG	60 120 180 240 300 360 397
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 539 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:718:	
GAATTCGGCC TTCATGGCT AGAAGGAAAG AAATTTTATG TGAGAGAGGCA TCTTGTATGG CAAATTCTTG TCCTAAAGTA GAATGACTAG GAAAGACAA AATATAGGAC AAGTCAGAAA GTCATAAAGAT GGGAAAGAAA AACTTACAAC TGCTAGATCT TCTCCTGTCT AGAAGGTTG TGTGTGTGTGT GCTTATATGA AGGTACTCTA ATTAATTGGA TTAAGAGAAAA ATGAAACCCC ATCTCTACTA AAAATACAGA ATTAGCCGGG TGTAGTGACA CATGCCTGTA GTCGCAGCTA CTCAGCAGGC TGAGACAGGA AGATAACTTT AACCCAGGAG TTGGAGGCTG CAGTGAGCCA AGATCGCGCC ACTGCACTCT AGCCTGGGAG AGACAGAGCG AGACTCCGTC TCAAAAATGA AAAAGTAGAG CCTGGTAGAG TGAAGCCACT TGCAGGAGTC GTTTAGTTAG GGCTGTGTTG CCTTACAGTG CTGGTGTCCT CACAGATGAT AATAGTAATA AAAAACACCA CAACTCGAG	60 120 180 240 300 360 420 480 539
(2) INFORMATION FOR SEQ ID NO:719:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 387 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:719:	
GAATTCGGCC TTCATGGCCT AGGCAGTGGA TAATTGTCCT CTGGAGGAAC CATCTGTGAC ACATTCTACA TGGTTCCTTA GAGGGTCCCC AAGTGGGATT GAGTCCCTCT TGTTCCTAGC	60 120

CTGATCCTTC C CTGTCTCAGG C ACGAGGCTCC A	TETGTTATAC ACTETTTATA TGETTTTCCT CETTTCCTCT CTCAGTCTCT CACCTGTGCT CTGGGTTCAC CTCTCAAGTA AACCACCTGC ACACAAGTCC CTCCATTTGG GGAAACCAAA CTAAGACACC ACCTCAAAAC ACAGAATTTC AAATGCCTCA GAAAAGTAAT GTAAATATAA AATGACCAAT TTTTTGAAGT TAGTTATTTA ACTCGAG	180 240 300 360 387
(2) INFORMAT	rion for SEQ ID NO:720:	
(i) S	EQUENCE CHARACTERISTICS: (A) LENGTH: 239 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:720:	
TTTCTTTTGC C	ETTTGCAAAT ATTTCTCCT CTTCTGTAGG CTGTTTACTC TTGTTGATAG CATGCACAAG CTTTTTGGTT TAATTAGATC CCATTTGCA ATTTTTGCTT IGTTTTTGGC GTCTTCATCA CGATATCTTT GCCAGTTCCT ATGTTCAAAA IAGGTTGCCT TCCAGAGTTT TTATAGTTTT GGGTTTTTAT TTACTCGAG	60 120 180 239
(2) INFORMAT	TION FOR SEQ ID NO:721:	
(i) S	SEQUENCE CHARACTERISTICS: (A) LENGTH: 323 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:721:	
TCCCAGGTAC ATAATTCCCT CTCGACTCCAC CTCTGTATCCT CTCTGTATCCT CTCTGTATCCT CTCCAGGTACCT CTCAGGTACCT CTCCAGGTACCT CTCCAGGTACCT CTCCAGGTACCT CTCCAGGTACCT CTCAGGTACCT CTCCAGGTACCT CTCCAGGTACCT CTCCAGGTACCT CTCCAGGTACCT CTCAGGTACCT CTCCAGGTACCT CTCAGGTACCT CTCAGGTACCTACCT CTCAGGTACCT CTCAGGTACCTACAGGTACCT CTCAGGTACCT CTCAGGTACCT CTCAGGTACCTACACTACA	ACCCTAGACG GTCTCATCAC TATACTGGCT CCTCCTTACC CCCGTAAATC ACTTCCTGAT CACCCTCCGG ATACCTCATC CCTATCTATT CCTTTTATAA GCTCCTCCTT CTCACCCACA ATCCACTCGC AGTTCAAGGC CTCACTGCCA TGTCTGTGAG TGCTTCCCAA TATGCCCCAG GACCCCTCCT GGTGTCACGC GAACGCCCTT GTAGACGAGT CCCGAAATTC CCGCCCCGTC CCTGGAGCTC GAAGGCCGAA TTC	60 120 180 240 300 323
(2) INFORMA	TION FOR SEQ ID NO:722:	
(i) S	SEQUENCE CHARACTERISTICS: (A) LENGTH: 275 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:722:	
CAGGCAGCCA TCCTTCTCCT GACTAAAGTC	TTCATGGCCT AGGCCTGTGG AGCCCCAGCT CTGGGTCCCT AGCCCGGGTC GGCTCCCTCC TGAGCTGAGA AACGGAACCT CGCGAACCAC TGGTGGCACA CCCCCGCCCC TGATCACCCG CCCCCGGATC AGAAATATAT CTATATTCTC TCATCAGGAA ATATTTCCTG TCTTTTATTT TAAGCATCAA ATTGTTTTAG AAGGAAAAAA TACAGACGAC TCGAG	60 120 180 240 275

- (2) INFORMATION FOR SEQ ID NO:723:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 317 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:723:

GAATTCGGCC	TTCATGGCCT	AAGAAGCAAC	AATCATATTA	GCTGGGGGAG	GAGGATAGTT	60
TGGTATTTTT	GTAGTTTGCA	CAGTGACCTT	TTTAAAAAATC	TGGTTAGGCA	AAAATAGTGT	120
GATCTTGTTT	GTTGTCTCAC	TTCATTATGA	TCACAGAATG	ACCTGGTATG	ATGTTAGTGT	180
TTTATGAGAG	TGTTATGTTT	TAACAGGGGA	ACACCGCAGT	CAATTCCTAA	CAACACTAAA	240
GTGTCAGTTC	TGTTCGTGAC	ACCAAGGGCT	GTTTTTCTTT	TTCTCATATA	ATGTTGAGGC	300
AACCAGGAAG	ACTCGAG					317

- (2) INFORMATION FOR SEQ ID NO:724:
 - . (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 267 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:724:

GGCCTCAGCA GGTGTGAAGC	GTGTGCTTTA	GTTTCGTGGG	AGGCCTGGCA	TCCCCGAGAG	60
GGAGGGGAAA GGTAACCACT	CCTTTGTGGA	GGTCGCCAGG	GTCATTGTCG	TGGATTTGCA	120
CAGTCGGCTG GGCGGTGCAA	TGGCGGAAAG	AAAAGGAACA	GCCAAAGTGG	ACTTTTTGAA	180
GAAGATTGAG AAAGAAATCC	AACAGAAATG	GGATACTGAG	AGAGTGTTTG	AGGTCAATGC	240
ATCTAATTTA GAGAAAGCAG	ACTCGAG				267

- (2) INFORMATION FOR SEQ ID NO:725:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 354 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:725:

GAATTCGGCC	TTCATGGCCT	AAGTCAGTGG	TAAGCCGCAG	CAGTTTCCTG	CCACTCGTAA	60
TATGGCAATT	AAAAATTTTA	AATTTGTGGC	TGCTTGGGGT	CTGGGAGGTG	ACCTGCTCCT	120
CAGCAAATTT	TGACTGATAA	ATTAATGCCT	GGGTCTTCAG	CCTGGTTCTT	TGCTGGCCAG	180
TGTGACAACA	GTCTGTCACG	TCTCTGGGGG	CACATTATAA	TTAACAGATG	TAATCTTTCT	240
CCGGTTCAGG	GTCATCTGTG	AATCAGGGGT	ACTGCCCCAG	TAGAACTAGG	AACATCCAGC	300
AAAAGACTGT	TTTCAAAATA	TACAATTAAG	TGAAAAAAAGC	ATGAAGAACT	CGAG	354

- (2) INFORMATION FOR SEQ ID NO:726:
 - (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 154 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:726:	
GAATTCGGCC AAAGAGGCCT AGAGGTTGAC CTGAAAAACA ATGAAACACA TGAACACACT TCCGATTTTC TCCTCGCTGA TTAGCTTCCT GCCTGCTGTC AGTGCTGGAC GAAGTGCTAT AACTACTTTA TGTAACATTA CAGAACAGCT CGAG	60 120 154
(2) INFORMATION FOR SEQ ID NO:727:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 338 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:727:	
GAATTCGGCC TTCATGGCCT AGTGGGAAGA TGTGGATGAT GAGAAGGGAG ATAGCAATGA TGACTATGAC TCTGCAGGCC TATTGTCAGA TGAAGACTGT ATGTCTGTGC CCGGAAAAAC TCACAGAGCT ATAGCAGATC ACTTGTTCTG GAGTGAGGAA ACAAAGAGTC GCTTCACGGA GTATTCGATG ACTTCCTCAG TCATGAGGAG AAATGAAACAG CTGACCCTAC ATGATGAGAG GTTTGAGAAGG TTCTATTCAAG TAGACAGCAC GACTCGAG ATAGCAGCAC GACTCGAG	60 120 180 240 300 338
(2) INFORMATION FOR SEQ ID NO:728:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 433 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:728:	
GAATTCGGCC TTCATGGCCT AATTGAATTC TAGAACTCTC CCAGAGAAAC CAGGCAGATA CTGCTCCACA CCGGTGAGCT GCTTCTCACC TGGGTAGTCT AGGGTGGTTT GCTCCAGAAT TGTATTTCTG CTTTTTCTTT TTTTAACTTG GCAGTGGTTA ACCATTCCCT GGAGCAGCAC CAGGTAAGCC AGCTTGTATC AGAGTCATCT GCTTTACCTG ACATGAGCAC ACGTTGTCAT ATATTTGCAC ATGCAGATAT CATATGTTAA ACAATATCAC ATTGTTGAAG AAAATTACAC TGGAAAGCGT AAAATATAGT TTGGATGCCA TATTGAGTGT AACTTAATCC ACCCGATTCA GAACTTTTGT AGAGTGCCTC GGAGTTCCTA TTTGGAAATA TCAGTTAGCA GTTTTAGTCA GTAGAGACTC GAG	60 120 180 240 300 360 420 433
(2) INFORMATION FOR SEQ ID NO:729:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 315 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double	

(D) TOPOLOGY:	linear
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- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:729:

GAATTCGGCC TT	CATGGCCT AACAAGAAA	CACCAAGTACC	TCGACCTCAA	GAATTCACAA	60
GAGATGCTCC GC	TACAAAGA GGTCTGCTA	C TACATGCTCT	TTGCCCTGGC	TGCCTACGGG	120
TGGCCCATGT AC	CTGATGCG GAAGCCCGC	TGCGGCCTCT	GCCAACTGGC	TCGGTCCTGC	180
TCGTGTTGCC TG	TGTCCTGC GAGGCCGCG	G. TTCGCCCCTG	GAGTCACCAT	CGAGGAAGAC	240
AACTGCTGTG GC	TGTAATGC CATTGCCAT	CGGCGCCACT	TCCTGGACGA	GAACATGACT	300
GCGGTGGGAC TO	GAG				315

- (2) INFORMATION FOR SEQ ID NO:730:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 156 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:730:

GAGTTGTCTC	TCTGAATTAA	CTTTCTCACC	AATAGCTCCT	CTTTAAGATC	AATAACTCTT	60
ATGTTTGCAC	TTTTTAGGCT	ATTTTCTAGA	TCTTGTATGT	GTGTCTTATT	ATTTTTTATT	120
CTTTTTGTCT	CCTCTGTGAA	TTTTCAAATA	GTCGAG			156

- (2) INFORMATION FOR SEQ ID NO:731:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 223 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:731:

GAATTCGGCC	TTCATGGCCT	ACTTGAACCT	AGATCTCACC	CCCAGGATGT	TGCGGAGGCT	60
GCTGGAGCGG	CCTTGCACGC	TGGCCCTGCT	TGTGGGCTCC	CAGCTGGCTG	TCATGATGTA	120
CCTGTCACTG	GGGGGCTTCC	GAAGTCTCAG	TGCCCTATTT	GGCCGAGATC	AGGGACCGAC	180
ΔΤΤΤGΑCTAT	TCTCACCCTC	GTGATGTCTA	CAGTAACCTC	GAG		223

- (2) INFORMATION FOR SEQ ID NO:732:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 309 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:732:

GGAAGAGGCA G TGTGAATCCT G ACTTTCTTCA T	TETTTCATG ACGGTTAAAA G GCTGTGGCA CTAACTATCT G CTGCAAAAT GGGTAGTTGT A TGGAAGCAC TCAGTAAATG T	TGCAGGATT TGGAGTCCCA TGTGACTGG CTGTGAACCT TAGCAAATG CACATAGAGA	TGGTCCTGGG CTCGTGCCTC ACACTTAACA	120 180 240 300 309
(2) INFORMAT	ION FOR SEQ ID NO:733:			
(i) S	EQUENCE CHARACTERISTICS (A) LENGTH: 275 base (B) TYPE: nucleic aci (C) STRANDEDNESS: dou (D) TOPOLOGY: linear	pairs d	*	
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: S	SEQ ID NO:733:		
TTGCCACCAT A GGAACTCTTA T CTCCAGACAT T	TCATGGCCT AGATTAATTC T.ACCTACAAC ATTTGTCCGT CCAACCAATT GAACATCCTG CCAAACAACC ATTCCACATGC AGTAGGCAGG T	CACCCACG TGTCTTCTT GTCAGGAGC ATGCACCCTA GACCATCCA GGTTCCTTTA	CTTTGTGGCA GTGTCTCAAT	60 120 180 240 275
(2) INFORMAT	ION FOR SEQ ID NO:734:			
(i) S	EQUENCE CHARACTERISTIC: (A) LENGTH: 250 base (B) TYPE: nucleic aci (C) STRANDEDNESS: dou (D) TOPOLOGY: linear	pairs id		
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION:	SEQ ID NO:734:		
ATTTTGGGGT T	GCACGTTTC CCACAACTGC G TTTGGAAAAG AAGCTATGGA A TTTTCTTTG TTTTGCTGGG A ATGGAGGAAT TGCAGAGCGG G	AACGGAGGG GCAGGCACT	C TGCAGATAAG G AAACTGGGAA	60 120 180 240 250
(2) INFORMA	TION FOR SEQ ID NO:735:			
(i) S	EQUENCE CHARACTERISTIC (A) LENGTH: 324 base (B) TYPE: nucleic ac: (C) STRANDEDNESS: do: (D) TOPOLOGY: linear	pairs id		
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION:	SEQ ID NO:735:		
GCTCTTGGGT (TTCATGGCCT ACACAGACTG (CCAGAGGCTA GGAAGTCCAA (GGAAGGCAGA A	GAGCATGGTG TCAAGCATC AGTGAGCGTG TGAGACAGA	A GGTGAGGATC G AGGGAGAATT	60 120 180

ATAATGGCAT TAATCCATTC ATGAGGCCCC TACCTCTTTT TCTCCCCCCG CCCCCGAGA TGGAGTTTTG CTCTTGAGCT CGAG	300 324
(2) INFORMATION FOR SEQ ID NO:736:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 259 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:736:	
GAATTCGGCC TTCATGGCCT AAACACATAC CAGATTCTTA GATTCATTG GTGAAGGAAG CCTCTGAATT AAAACTTTTA AATATTTCTG ATTTGCAACC AGACGAAAAA GAAGAAAATT GACAACTTTT TTGATGCAAC TTTGTGAAAT CATGGTGTTC CTGGTTTTC TGGTCTGGTT TTTGTTGTTG TTTTGTTTTTG TTTTGCCACA GTTTAGTTCC TCACCTGATC TTTCCTTGTA TCCACTTCAG AGTCTCGAG	60 120 180 240 259
(2) INFORMATION FOR SEQ ID NO:737:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 409 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:737:	
CTCGAGGCGG TGCCAGACAC GGGTCTCCTC CGACTGGGCG GTGCGTGGGA TGCCGCCAGC GTCCAGGTAC TGCGTGATGC GGATTTAGGC GATGCAGGCT GACTCGTCGC CCATCAGGTG GATGTGGGAA TTCAGGATGG TGGTGTGCAC GGGCTTGCTG TTCCGGGACC ACAGGTTTTC AAAATAGAAT CGATGGAAGT CCAGGCCCTC AACCAGGTTC CCCAGGGCCT CAGGTTCGAA GGCTGTCATG CCAGGGTCGC ACATCTTCGT GTAGGACTCA AAATCTCCAT TGCTTATGGC TTCAATCAGC TGCTCTGTAA TTCCTGTTTC CGCACTTTGG TGTCTTCATC CTCGATGGTG GTGTTGGTGC TCTCTGAGTA GGCCATGAAG GCCGAATTC	60 120 180 240 300 360 409
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 466 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:738:	
GAATTCGGCC TTCATGGCCT ACTTTCCCCT CCTTCCTTCC TTCCTTCCTC CCTCCCCCTC CTCTCCTCTC TTTCTTCCTT CCTTGCCTC TTCCATCCTT CCCTCCCTCT CTCTCTTCT TTCTTTCTTT CCTCTCTCT	60 120 180 240 300 360
336	

(2) INFORMATION FOR SEQ ID NO:739:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 367 base pairs

ATTCAGTTGC ATTTTTGCTG AGATAGTGCT GTTACCAAAA GCAGGGGTGC TGCTTGAAGA AGTAAACCTA ACTCTGAAAA ATAGAGACTC TCCAGAAACA CTCGAG

(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:739:	
GAATTCGGCC TTCATGGCCT ACATTCTGCA AACTATTTTG TTATTAGCTT TTTCACTTAA	60
AAATAGCCCT GCTTGCAAGC AGGCTCTGTG GTGCAATGGA TAGCGCATTG GACTTCTAGC	120
CTAAATCAAG AGATTCAAAA ATAGCCCTGC TAAATATTTG CAATCTTTCC TACGCTCCTT	180
TTTCCCCCAA AGTGACTTTG GATATCCAGA GTTACCAAAT CTAGTATTTG AAGTCCTTAG	240
GTTTGAGGGT TGAAAGTGAA AGGCAAGCTG TTTTAATGAA AATTCCTAAC TGAAGAGAGC GGAGACTTAA GATGCTTAAA TTTTGGTCAC ACCTGAGCGG TATTTGTTTG CATGGCAGGA	300 360
GCTCGAG	367
(2) INFORMATION FOR SEQ ID NO:740:	
A A ADOLUNAN GUADA GERRA COM	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 264 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:740:	
GTGATGGACA AAGACAGGGA AGGCCTCATC AGCAGGGATG AGATCACAGC CTACTTCATG	60
AGAGCCAGCT CAATCTATTC CAAGCTGGGC CTGGGCTTTC CTCACAACTT CCAAGAGACC	120
ACCTACCTGA AGCCCACTTT TTGTGACAAC TGTGCTGGAT TTCTCTGGGG AGTGATCAAA	180
CAAGGATATC GATGTAAAGA CTGCGGGATG AACTGTCACA AACAATGCAA AGATCTGGTT GTGTTTGAGT GTAAGAAGCT CGAG	240 264
GIGIIIGAGI GIAAGAAGCI CGAG	204
(2) INFORMATION FOR SEQ ID NO:741:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 318 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:741:	
GAATTCGGCC TCATGGCCTA CACGACCAGC ACCGCCACTG CCACCTCACA GCCTTTCCTC	60
TTCGGGGCGC CCCAGGCCTC TGCTGCCAGC TTCACCCCGG CCATGGGCTC CATATTCCAG	120
TTTGGCAAAC CTCCTGCCTT GCCCACAACC ACCACAGTCA CCACCTTCAG CCAGTCCCTG	180
CCCACTGCCG TGCCAACGGC CACCAGCAGC AGCGCTGCCG ACTTTAGTGG TTTTGGCAGC	240
ACCCTCGCCA CCTCCGCCCC GGCCACCAGC AGCCAGCCCA TTCTGACGTT CAGTAACACG	300
AGCACCCCG GCCTCGAG	318
337	
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- (2) INFORMATION FOR SEQ ID NO:742:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 256 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:742:

GAATTCGGCC	TTCATGGCCT	AAGAAATGAA	AAAGATTATT	GAAACTATGC	CAATGACTGA	60
GAAAGTTGAA	GAATTGCTGC	GTGTCATAGG	TCCATTTTAT	GAAATTGTCG	AGGACAAAAA	120
GAGTGGCAGG	AGTTCTGATA	TAACCTCAGT	CCGACTGGAG	AAAATCTCTA	AATGTTTAGA	180
AGCTGAAAGC	AGTGACAGTG	GAGCCGAGTC	TGAGGAAGAA	GAGGCCCAAG	AAGAAGTGAA	240
AGGAGCAGCC	CTCGAG					256

- (2) INFORMATION FOR SEQ ID NO:743:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 580 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:743:

GAATTCGGCC	TTCATGGCCT	ATGTTTTTAT	AGCACCGATG	GTACTGTTTT	ATTTATTGCC.	60
AATAGACCAC	AACATTCACA	TCTGTTTTTC	CTCAAGGGAA	CCGTATTTGC	TTTTGGTTGA	120
AGGATTTATC	TATTTGATAC	TATCCAGAAT	ATTGTGAAGC	TATAATTTCC	TGGGTTATAT	180
TTTAGATGGG	TTGTCTGCAT	GGTGGTAAAA	TAAGCTTTTT	CCTCTCGCCT	ACGTCCTTTG	240
GAAGATCTCC	TGATCATACA	TAACTAGGTA	GGGCTTATTC	TTGCTGCCGG	AGCTTGGCAC	300
CCAGCTCTAG	ACTGTTTCTT	TGAGCATTAC	TGCAGATTGG	AGACGTGTGT	GAGAGGAGCA	360
GCGCTCAGAA	ATAGGGCTTG	AGGCTCAAGC	AGAAACTGAA	GCTCTCATTC	AAATGAAGAT	420
GCTCTCTCTA	CCGCACGATC	GGCAGTGAGA	AAAGGAGGAT	GAAAATCCTT	CTCATCACAA	480
AGAGCTTGAA	GGAACCCACG	TCCCCAGATT	AGCAACCCTA	GAGTTCATCT	GCTCAGGCCG	540
GGAAATGTGT	AAGCTTCCTT	GATCAACTCC	AGGCCTCGAG			580

- (2) INFORMATION FOR SEQ ID NO:744:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 374 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:744:

GAATTCGGCC	TTCATGGCCT	ACCCAGAGAC	TCGCGGACGC	TCACGATAAC	CAAGGACGAC	60
CGCGAACCAA	GGGCAAAATA	ACATGGCAGC	CAGACGAATT	ACACAGGAGA	CTTTTGATGC	120
TGTATTACAA	GAAAAAGCCA	AACGATATCA	CATGGATGCC	AGTGGTGAGG	CTGTAAGCGA	180
AACTCTTCAG	TTTAAAGCTC	AAGATCTCTT	AAGGGCAGTC	CCAAGATCCA	GAGCAGAGAT	240
GTATGATGAC	GTCCACAGCG	ATGGCAGATA	CTCCCTCAGT	GGATCTGTAG	CTCACTCTAG	300
AGATGCCGGA	AGAGAAGGCC	TGAGAAGTGA	CGTATTTCCA	GGGCCTTCCT	TCAGATCAAG	360

CAACCCCTCT CGAG

(2) INFORMATION FOR SEQ ID NO:745:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 323 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:745:	
• .	
GAATTCGGCC AAAGAGGCCT ATTGGTTTCC CTGCTTCCAT TCTTACTCCC CTACACTCTG	
TTCTCCAAAA AATAACCATT GTGATCCTTT AAAATCCTGA CTCTCTCCTG CTCAGAGTCA TCCAGTGGCT TCCCATATCA CGTAAAATGA AACCCCAATC GCTCCTTACT CTGGCCTGCA	1
GGGGCCTGTG TGATGGGCCT TCTCCAGCTT CGTTCTTCCT TTCCTTCTGT TCTCCCCTCT	1 2
GCTTACCTAC TCCATCTCCA GGGCTTCTTT CCAGCTCAAG CCCTTTCCTG TTGAGAGCAT	3
TTGCTTTCCC CAGGGCACTC GAG	3
(2) INFORMATION FOR SEQ ID NO:746:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 273 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:746:	
GAGAACAGTG TTACCAAAGA AAAGGACATG TTCAATTTCA AACGAGCCCA GGAGGACATC	
TCTAGACTTC GCAGGAAGCT GGAGACCACA AAGAAACCAG ACAATGTACC CAAGTGTGAT	1
GAGATTCTGA TGGAAGAGAT TAAGGATTAC AAGGCACGCT TGACCTGTCC ATGCTGTAAC	1
ATGCGTAAAA AGGATGCTGT TCTTACTAAG TGTTTTCATG TCTTCTGCTT TGAGTGTGTG	- 2
AAGACACGCT ATGACACCCC CCCCGCGCTC GAG	2
(2) INFORMATION FOR SEQ ID NO:747:	
(i) SEQUENÇE CHARACTERISTICS:	
(A) LENGTH: 666 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:747:	
GAAGATCTTC GCTGTCCTCT CTGCCTCTAT CACACCAAAT ACAAGCGCAA CATGATTGAC	
CACATCGTGC TGCACCGAGA AGAGCGTGTT GTCCCCATTG AAGTTTGCCG GTCCAAACTG	
TCCAAATACT TGCAGGAGT AGTTTTCCGC TGTGATAAGT GTACCTTCAC CTGCTCCAGT GATGAGAGCC TCCAGCAACA TATAGAAAAG CACAATGAAC TGAAACCTTA CAAATGCCAG	:
GATGAGAGCC TCCAGCAACA TATAGAAAAG CACAATGAAC TGAAACCTTA CAAATGCCAG CTCTGCTACT ATGAGACCAA GCACACGGAG GAACTGGACA GCCACCTTCG GGATGAGCAT	:
AAGGTAAGCC GTAACTTGA GCTGGTTGGA CGGGTTAACT TGGATCAGCT GGAACAGATG	
AAGGAGAAAA TGGAGAGCTC CAGCAGCGAT GATGAGGACA AGGAAGAAGA AATGAACAGC	
AAGGCTGAAG ACAGAGAGCT GATGAGATTT TCTGACCACG GGGCTGCTCT TAACACTGAG	•
339	

CACCCAAAAG AGATCATGA GAACAGTGTT AAAATGCCCT CCATAGAGGA AAAGGAAAGT CTCGAG	600 660 666
(2) INFORMATION FOR SEQ ID NO:748:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 379 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:748:	
GAATTCGGCC AAAGAGGCCT AACAACCGAA TATAGTACAC GACCTTCCTG CAGCAGTTCT AAGCTACTGT CAAGTATGGA AAATCCCGGC AATTCTGTAC TTGTGTTATA CTGATGTGAT GAAATTAGAC CTAATCACAG TGGAAGCTTT TAAGCCTATA CTTTCTACCA GAAGCTTGAA GGGTTTGGTT AAGAATATTC CCCAAAGCAC TGAGATACTA AAGAAATTGA TGACAACNAA TGAGATTCAG AGTAACATTT ATACATGATC TTTAAACATTG TTTTGTAGTG TATATTACTT GTCCATTCCT TTAAGGGGAG CAGCCTGCAC TCTTTTGTAG ATTACTTTTG GGGGATATAT TTTGAGAATG ATGAAACGG	60 120 180 240 300 360 379
(2) INFORMATION FOR SEQ ID NO:749:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:749:	
GAATTCGGCC TTCATGGCCT AGGCGCAAGG CCGAGCGTTC CCAGCAGGGG GAGAAACCCT TCACACCCCA GGCCCTTCAG GAACTGGGGC CTTGCCTTGC	60 120 180 240 300 335
(2) INFORMATION FOR SEQ ID NO:750:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 648 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:750:	
GCAAAGACCC AAGAACTGAA TATGCTCCGG GAACAGACCA CTGGGCTGGC AGCTGAGTTG	. 60
CAGCAGCAGC AGGCTGAGTA CGAGGACCTT ATGGGACAGA AAGATGACCT CAACTCCCAG CTCCAGGAGT CATTACGGGC CAATAGTCGA CTGCTGGAAC AACTTCAAGA AATAGGGCAG	120 180

GCCATGCTGG ATGAC CTGGGAGCAG TTCGT CGTGAGCTCC GAGAC ATCCGGGAGG AGAAC CTTCAAGCTC AGGTA GAAGCCGAGG AATCC	SACCCA GGAATTACAG SCTAGC AATGGAAACG CCTACG GCATGAGAAG SCTGCA TGAAGACAAG GCCCG GACACGGGAG ACATTC CATGGATGGA CCTGCA GCAGCAGCAG GCCGA GCTGAAGGGC	CTGCAAGAGA GAGGTGCTGG AAGCGTCAGG CTGGAGACTC GCCAAGGGCT CAGGAACAAG	AGTCCCAGCA GGGTGCGTGC AGGAGGAGCT TCCAGCAGAC GGTTTGAACG AGGAAGCCCT	CAAGGAAGAG CCGCTATGAG CCGTGGGCAG AGTGGAAGAA GCGCTTGAAG	240 300 360 420 480 540 600 648
(2) INFORMATION	FOR SEQ ID NO:751	:			
(A (B (C	NCE CHARACTERISTION LENGTH: 266 base TYPE: nucleic acostranded STRANDEDNESS: do TOPOLOGY: linear	e pairs cid ouble			
(ii) MOLE	CULE TYPE: cDNA				
(xi) SEQU	ENCE DESCRIPTION:	SEQ ID NO:	751:		
AGACGTCTGG GAGTA	GAAGA GAAGCGACCG ATTITG CTCTGGCGT GAGCAG GGAAGGTTCC GGCGG GGCTGCGGGG GGGAG CTCGAG	TTGGGTGAGC GAGTCCTAGG	AGGACCGGGG GAGGCGGCAG	CGTTGGAGGG CGCTCGGCTA	60 120 180 240 266
(2) INFORMATION	FOR SEQ ID NO:752	:			
(A (B (C	NCE CHARACTERISTI LENGTH: 288 base TYPE: nucleic ac STRANDEDNESS: do TOPOLOGY: linear	e pairs cid ouble			
(ii) MOLE	CULE TYPE: cDNA				
(xi) SEQU	ENCE DESCRIPTION:	SEQ ID NO:	752:		
GGAGACCTGG CAGGT CCAAGATGAT AAGTC CCCTGGCACC AGGGT	TGGCCT AGGATGTTTT TATTGA AGTACCTGGG GGAGGC TGAGCGTCAC TGCAGG GGATGCGGGG CCTGCC CCTAGGCTGA	AAGAAAGGCA TGGTACTGGG CCTGAGCAGG	ATGGGGATGG GGCCATGATC AAGAACAGAG	TGGTCCTGCT CCCAGGGCCA	60 120 180 240 288
(2) INFORMATION	FOR SEQ ID NO:753	3:			
(A) (B) (C)	NCE CHARACTERISTI) LENGTH: 487 base) TYPE: nucleic ac) STRANDEDNESS: dc) TOPOLOGY: linear	e pairs cid ouble			
(ii) MOLE	CULE TYPE: cDNA				

60

120

GAATTCGGCC TTCATGGCCT ACTGAATTTG CTTTTCTTGC CTCTCTTTAG TCACCTGTCA

CAGGAGGTTC CTGCTCAGTA ATGATATTGT GAGTTAGGAT AATAACTTTT TTTTTTTTGT

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:753:

40
0.0
60
20
80
87
1

- (2) INFORMATION FOR SEQ ID NO:754:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 443 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:754:

GCTGGGTTTA	GGCGATCCTC	TTGCTTCAGC	CTCCCAAGAA	GCTGGAGCCA	CAGGCATGCA	60
CCACCACGCC	CAGTTAATTT	TTGTATTTTT	TGTGGGGACG	GGGTCTCACT	TTGTTGCCCA	120
GGCTTATCTG	GAACTCCTGG	TTTCAGGCAG	TTCTCCTTCC	TTAACCTCCC	AAAGTGCTGA	180
GATTATAGGT	GTGTGTGAGC	TATCACACCT	GGCCTAGAAA	ATTATAAGAA	AATATTAATC	240
ACATAATCTC	ACTACCCATT	GATGATTTAA	CATCTAGTAT	ATACATATGT	ATATATAATT	300
TTAAAAGTAG	GGTTATATTA	TATAATTACT	TCATTATTCT	TGTTTTCCAC	TTAATATACT.	360
TAAGATATCT	TTCAAAATCA	CTAAATACAG	GAACATAGTA	TATCATCTTT	CAGTAGCCTC	420
ATTGTATAGC	TAACCCCCTC	GAG				443

- (2) INFORMATION FOR SEQ ID NO:755:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 584 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:755:

GAATTCGGCC	TTCATGGCCT	ATTGATTTCC	TGGGCTCAGG	AGAGGATGGG	GAAGGGGCTC	60
CAGACCCTCG	GCGGTGCACT	GTGGATGGGA	GCCCCCATGA	GCTGGAAAGC	CGTCGGGTCA	120
AACTCCAAGG	CATTCTGGCT	GACCTGCGGG	ATGTGGATGG	GCTGCCCCCA	AAAGTGACTG	180
GCCCGCCTCC	TGGCACACCC	CAGCCCCGGC	CACATGAAGG	TTCCTTTGGC	TTCTCCTCAG	240
ACGTCTTCAT	CATGGACACT	ATCGGGGGCG	GGGAGGTGAG	CCTGGGGGAC	TTGGCAGATC	300
TCACCGTCAC	CAACGACAAC	GACCTCAGCT	GCGATCTGTC	TGACAGCAAA	GATGCTTTTA	360
AGAAGACGTG	GAACCCCAAG	TTCACCCTGC	GCTCGCACTA	CGACGGCATT	CGTTCCCTGG	420
CCTTCCACCA	CAGCCAGTCG	GCTCTGCTCA	CCGCCTCCGA	GGACGGCACG	CTCAAGCTCT	480
GGAACCTGCA	GAAGGCGGTC	ACGGCCAAGA	AGAATGCGGC	GCTAGATGTG	GAACCTATAC	540
ATGCTTTCCG	GGCTCACAGG	GGCCCAGTGT	TGGCTGGACT	CGAG	•	584

- (2) INFORMATION FOR SEQ ID NO:756:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 285 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:756:

GAAATTAAAA	AAATAAAATC	AAGTTCTTGG	GTGGTGGGAA	ATTGGCCTGT	ATTTTTTTTT	60
CTCAGTGGAA	TTTGCTGAGT	AAAAATTAT	AGGCTCAAAA	ACTGAGAACT	TTGAAGATAT	120
TGCACCATAT	TCTTTTTGTA	TTGAGTGTTG	CTGATGAGAA	GTCTGAGGTC	AGTCTGTTGC	180
TTGCTCTTTC	TAGGTAAACT	GTGCTTTTTA	TATTTTTTCC	CCTCTAGAGG	TTTTGAGAAT	240
TTACTCCTTA	TCCATGTTAT	TCTTAAATTT	CACCACATTC	TCGAG		285

- (2) INFORMATION FOR SEQ ID NO:757:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 310 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:757:

GAATTCGGCC	TTCATGGCCT	AGAATGCTTT	GAATCCATAT	CTTTTTCAGA	AACATACATG	60
GAAATACAGA	ACTACACCTG	TAATTACAGA	GGGCATATGA	ACCCTAGTTT	GATAAGCCTT	120
GCTTTAAAGG	ATGCAGTGTG	TTCTATTAAA	TGTATTTAAT	ACAATTGCAG	AAATGGAAAA	180
TGTGGACCTC	CATTAAACAA	ATTTTTTAGT	TCCTAATGAG	ATAAACTTGG	GACCAAACCG	240
ATTCCTCTTG	TTTTAGTGCT	CAAAAATAGT	TTCATTTTTA	GGTATTTATG	CTTTAGTGGC	300
CTTTCTCGAG						310

- (2) INFORMATION FOR SEQ ID NO:758:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 196 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:758:

GAATTCGGCC	AAAGAGGCCT	AAGAAAAGAA	AGCAAGAACA	GAAAACGAAG	CCACAGGAAG	60
GGAAGTAGAC	ATTGTATGCT	TATGGTTTCT	CATTATGAAG	GTGCAGCTTG	TAGGAGGTTT	120
GTACGGATGT	GCTTTGAAGT	TATGTATATT	ACATATAACA	GGAAAAAATA	TTAAAATAAA	180
CAGTGCTGGT	CTCGAG					196

- (2) INFORMATION FOR SEQ ID NO:759:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 360 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:759:

AAGTCAGATA GATGCTATTT AGACCTGACT AGAAAGCAGG	TTCATGGCCT ACAGCAAATC T GAGGTAAGTA CGAAGACCAC A FAGACAAGGT GGTCAGGGCA A GAAGTGAGAG TGAGCTATTG A GGCAGGCTTT GGAGGGAGAG C FAAAGCAGAA TGAACAAGAG	AAAGCAGGTT AGCCTCTCAG ACACGGAGAA CTTGTTTATG	AAAAAGTAAG AAGAGGGGAT GGGCATTTCA TAGACAAGGA	GTGGGAAAGG AAGTGCTCAG GACTCTGAAG GGGGCAAAGA	60 120 180 240 300 360
(2) INFORMA	FION FOR SEQ ID NO:760:	:			
(i) S	EQUENCE CHARACTERISTIC (A) LENGTH: 192 base (B) TYPE: nucleic ac (C) STRANDEDNESS: do (D) TOPOLOGY: linear	pairs id uble			
(ii)	MOLECULE TYPE: cDNA				
(xi)	SEQUENCE DESCRIPTION:	SEQ ID NO:	760:		
AGAAGGTTGA	AGTCAAAAGT AGGTGCCCAT A ATGGAAACAT TATGGCATGC 1 ATCTTTTAGG TCTATCCATT (AG	TTAGACGTT	CTGTTTTGGT	TTTCTTATTC	60 120 180 192
(2) INFORMA	TION FOR SEQ ID NO:761:	!			
(i) S	EQUENCE CHARACTERISTIC (A) LENGTH: 326 base (B) TYPE: nucleic ac (C) STRANDEDNESS: do (D) TOPOLOGY: linear	pairs id uble			
(ii)	MOLECULE TYPE: cDNA	,			
(xi)	SEQUENCE DESCRIPTION:	SEQ ID NO:	761:		
GCATGTTACG (ATAAAATGAA ATGTGGGAAAT AACTCCACAC A	TTCATGGCT AGTTTATTGC T GGTGGTTAGG TTCCAGGATT A ATTCTATCGTC ACCTTAATTG G ATTCAGCCTG GTATGTGAGT G ATTCATCCCC TTGGTAACTC A FATTTGGCTT CTCGAG	ATTGAGATCT CCTGTGCCTA GACTGAAATG	ATTTCTACTC AAAATATAGC CAACTCCGTG	ACAATTGCTT ATGCTTGTCT GAAACACCCC	60 120 180 240 300 326
(2) INFORMA	TION FOR SEQ ID NO:762	:			
(i) s	EQUENCE CHARACTERISTIC (A) LENGTH: 205 base (B) TYPE: nucleic ac (C) STRANDEDNESS: do (D) TOPOLOGY: linear	pairs id uble	·		
(ii)	MOLECULE TYPE: cDNA				
(xi)	SEQUENCE DESCRIPTION:	SEQ ID NO:	762:		
TCTTTAGCTA	TTCATGGCCT ACTGGCCCAA (GATCCAAAAA TTCATCAGGT A	ATATTTTCTG	TTTTCCAAGT	TCATGCAGGC	60 120 180

205

ACTCCTTTCC CAGTGCCCAC TCGAG

(C) Suration	FC1/0396/00930	
(2) INFORMATION FOR SEQ ID NO:763: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 285 base pairs (B) TYPE: nucleic acid		
(C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:763:		
GAATTCGGCC TTCATGGCCT AAAAATGAAT ATATTCCTAT CCTATATTAA CTAACCTAAA AGTTTATTCT GTTTTTAAAA TAAATGAAAG TATTTGTATG CTGACGGAGA TATGCCCTGC CCCCTCTCTA GAGTGCTGGG AATTCTCAGG CCACAGGCAG CCAAGTGCCC ACACATTTCC AGGCTGCCCT CCACCAGGGC GGTCACCAGG GACACGCACA CCTAGAAAGC CGTGGGCTCC TCGAG	G GGCCCTGGGC G TGACCCAGTC C AGCGACCTCG	60 120 180 240 285
(2) INFORMATION FOR SEQ ID NO:764:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 345 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:764:		
AATTCTTTAT CATTTCAGAT ATTAAGGATT TCAGATTTTA AGAGTTATCAGATTCAGATAGATAGAAGAAAAAAAAAA	AGACTAACAG ACCTTTAGGA GTATCTGTGA GCTGCCTGTT	60 120 180 240 300 345
(2) INFORMATION FOR SEQ ID NO:765:		
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 100 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:765:		
GAATTCGGCC TTCATGGCCT AGAGAATGTT TTCATGTTAC TTATACTAAC CTATAGGGTG ATAGATTGGT CCAATTGGGT GTATCTCGAG		60 100
(2) INFORMATION FOR SEQ ID NO:766:		

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 333 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:766:

GGATTGAATT	CTAGACCCTG	CCTCGTCATT	GTGGAACCCA	TGGAGCAGTT	TGATGATGAA	60
GATGGCTTGC	CAGAGAAGCT	GATGCAGAAA	ACTCAACAAT	ATCATAAGGA	AAGAGAACAA	120
CCACCACGTT	TTGCTCAACC	TGGGACATTT	GAATTTGAGT	ATGCATCTCG	ATGGAAGGCT	180
CTTGATGAAA	TGGAAAAGCA	GCAGCGTGAG	CAGGTTGATA	GAAACATCAG	AGAAGCCAAA	240
GAGAAACTGG	AGGCAGAAAT	GGAAGCAGCT	AGGCATGAAC	ACCAATTAAT	GCTAATGAGG	300
CAAGATCTAA	TGAGGCGTCA	AGAAGAACTC	GAG			333

- (2) INFORMATION FOR SEQ ID NO:767:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 238 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:767:

GAATTCGGCC	TTCATGGCCT	AGATAATATT	TTATGTTCAT	TGTGTGTTAG	ACTGTGTTGA	60
AGTGGAAACT	TTGGAACATT	GTTGGAACCA	GTAAGAATCC	CATTCCTCAG	GTATCAGGTC	120
GTTAAAGTAG	TTTAAAATAA	CGTATTCCTT	AATTTTCCTC	AGCAGGTTCC	CCCTCCCTTT	180
AACTTGTGTG	TATAAATATA	TGTGTGTGAT	GTTTTCTCTT	ACAAAGATAG	TACTCGAG	238

- (2) INFORMATION FOR SEQ ID NO:768:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 234 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEO ID NO:768:

CARTOCCCC	TTCATGGCCT	***********	comment of m			
GHATICGGCC	TICATOCCT	AGGGATCCCA	CCTTTACAT	CCTAGGTGTG	AACAGATTCA	60
AATCCACTAT	TCCTCCAGAT	TTTATAGATG	ACCAAACCAA	GGTGCACAAG	አርርር አመጥጥጥጥ	120
						120
TTGTTTTGTT	TTTTGTTTTT	GTTTGTTTTT	GAGACAGGAT	TTTGCTTTGT	TGCCCAGGCT	180
GGAATGCAGT	GGCACAAACA	TGGCTCGCTG	CAGTCTCGAA	CTCCTACGCT	CGAG	234

- (2) INFORMATION FOR SEQ ID NO:769:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 291 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:769:

GAATTCGGCC TTCATGGCCT ACGGAATGAG AAGATGAAAA ATCAAATTAA GCAGATGATG

CTTAAGCTAA GAAGATGACC	GGACACAGAC GAGCCTCCGT GCAACTCACT AAGTGGAGAT	GTCCACTAAA ACAAGCTGCC	TGTAACCTGG AAAGCTGGAC	AAGACCAGGT TGGAAGATGA	AAAGAAATTG ATGCAAAACC	120 180 240 291
(2) INFORM	ATION FOR SE	Q ID NO:770):			
(i)	(B) TYPE: (C) STRAN	ARACTERISTI "H: 432 bas nucleic a DEDNESS: d DGY: linea	e pairs cid ouble			
(ii)	MOLECULE T	YPE: cDNA				
(xi)	SEQUENCE DI	ESCRIPTION:	SEQ ID NO:	770:		
TTGGTGAGGG AGGGACACCT CTGATGATGG CCAGGTCCAG AACTCCTCAT CCAACCTCAG TCAACGCTCG (2) INFORMA	SEQUENCE CHA (A) LENGT (B) TYPE: (C) STRAN	CCTCTCACAG AAGGGATGGC GACAGATGGA CCAGACAGGC CTTGGCCTGG CACAGGTGGG Q ID NO:771 ARACTERISTI H: 399 bas nucleic ac IDEDNESS: dc	AAGCCCCTGG CAACAGCGGG GACGGGAGTC ACTCTCCAGG AGGAACCTGG GGACAGGGAC : CS: pairs eid cuble	CCCTGGACTG AAGCAGTTTG AGGGGACCCT CCTAGGACAG GGTGGGAAAC	TCCTGGGGC CGCCTGGTGC GGGGACCCTT ACAGGGCCCC AAGTAGTCCC	60 120 180 240 300 360 420 432
	SEQUENCE DE		SEQ ID NO:	771:		
AACGGGCCCT GGGAGGAGCT CCCCTCCCCT CTGTCCGTGG TGAGCCACAC	TGCCCCGTAC CAAATTTATC GAGCAACGTA GCCCTCTCCC GTGGGTGTGG CCTCTCCGGG CAGCAGGTGA	AAGAAAAGGG CTGGCCGCCA TGAAATAAAG GTGTGTCGGG TGCTGCCTGG	TGGGGACGCA TGAGGAAAGC AACAGCTTGA GGCCCGCAGT TCGTGAATCA	CATCCGCGCC TGCTGCCAAG CAGAAGCCCT CCCCTGTCTG	AAGAGGAAGC AAAGACTGAG GGCTCTCCTG GTGCCCGCTC	60 120 180 240 300 360 399

- (2) INFORMATION FOR SEQ ID NQ:772:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 520 base pairs
 (B) TYPE: nucleic acid

 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:772:

AGTTGAATCT AAACCGGATA AACCATCGGG AAAGTCAGGC ATGGATGCTG CTTTGGATGA CTTAATAGAT ACTTTAGGAG GACCTGAAGA AACTGAAGAA GAAAATACAA CGTATACTGG ACCAGAAGTT TCAGATCCAA TGAGTTCCAC CTACATAGAG GAATTGGGTA AAAGAGAAGT CACAATTCCT CCAAAATATA GGGAACTATT GGCTAAAAAG GAAGGGATCA CAGGGCCTCC TGCAGACTCT TCGAAACCCA TAGGGCCAGA TGATGCTATA GACGCCTTGT CATCTGACTT CACCTGTGGG TCGCCTACAG CTGCTGGAAA GAAAACTGAA AAAGAGGAAT CTACAGAAGT TTTAAAAAGCT CAGTCAGCAG GGACAGTCAG AAGTGGTGCT CCACCCCAAG AGAAGAAAAG AAAGGTGGAG AAGGATACAA TGAGTGATCA AGCACTCGAG	120 180 240 300 360 420 480 520
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 129 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:773:	
GAATTCGGCC AAAGAGGCCT AGTTTATTGT TTGCATATAT TTTATAGTGT AGAGATTAGG CATTTTAATA AAATTTTAAA ATTTCCAGGA TCTTACAGAA TGCTTTTATG TTACAGCTTA CTCCTCGAG	60 120 129
(2) INFORMATION FOR SEQ ID NO:774:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 337 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:774:	
GAATTCGGCC TTCATGGCCT ACACAACGGA AAGCTGTTTT TCTGATCGAG GCTCTCTGAA GAGCATAATG CAGTCCAACA CATTAACCAA AGATGAGGAT GTGCAGCGGG ACCTGGAGCA CAGCCTGCAG ATGGAAGCTT ACGAGAGGAG GATTCGGAGG CTGGAACAGG AGAAGCTGGA GCTGAGCAGG AAGCTGCAAG AGTCCACCCA GACCGTGCAG TCCCTCCACG GCTCATCTCG GGCCCTCAGC AATTCAAACC GAGATAAAGA AATCAAAAAG CTAAATGAAG AAATCGAACG CTTGAAGAAT AAAATAGCAG ATTCAAACAG GCTCGAG	60 120 180 240 300 337
(2) INFORMATION FOR SEQ ID NO:775:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:775:	
GAATTCGGCC AAAGAGGCCT AGTGAGCGCG ACCATCATGT CCATGCTCGT GGTCTTTCTC	60
TTGCTGTGGG GTGTCACCTG GGGCCCAGTG ACAGAAGCAG CCATATTTTA TGAGACGCAG CCCAGCCTGT GGGCAGAGTC CGAATCACTG CTGAAACCCT TGGCCAATGT GACGCTGACG	120 180

	GCCTGGAGAC TCCA			AGAATGGGGT	GGCCCAGGAG	240
CCIGIGCACC	TIGACTCACC TOCC	MICAMG	CACCAG			276
(2) INFORM	ATION FOR SEQ ID	NO:776	5:		-	
(i)	SEQUENCE CHARAC (A) LENGTH: 5	586 base	e pairs			
	(B) TYPE: nuc					
	(C) STRANDEDI					
	(D) TOPOLOGY	: linear	r			
(ii)	MOLECULE TYPE:	cDNA				
(xi)	SEQUENCE DESCR	IPTION:	SEQ ID NO:	776:		
	AAAGAGGCCT ATGA					60
	AACATAATGG ACAT					120
	AGTAGCACTG AAGA					180
CAAAAGGCIIIA	GGAAGTGAAG TTCA ATTCCAGTGT CAAT	א א א א אדיי	TTCTAAAGTC	ACTACTCAGA	TAGATAAAGA	240
CACTGAACCT	CAGCCTGTTC TAAT	יאררכאכ	TATTAATAT	AACTOTOACA	CTCCACAGCC	300
TAAAGAAGAA	ATAGGTTCTT TATC	מממממי	TGAAACTATT	CTCCCACCAC	NATCTCACAA	360 420
	AATGATAATG ATTC					420
	TCCATCTCTA GCTT					540
	AGAAGACAAA AGAA				Comment	586
(2) INFORM	TION FOR SEQ ID	NO:777	' :			
(i)	SEQUENCE CHARAC	TERISTI	CS ·			
(-,	(A) LENGTH: 4					
	(B) TYPE: nuc					
	(C) STRANDEDN	WESS: do	ouble			
	(D) TOPOLOGY:	linear	r			
1221	NOT EGILL WILD				•	
(11)	MOLECULE TYPE:	CDNA				
(xi)	SEQUENCE DESCR	IPTION:	SEQ ID NO:	777:		
GAATTCGGCC	TTCATGGCCT AGTT	TATATA	GAGTAGGTTT	ACATAGAAAA	GGAAAGTTCA	60
	TAGGTACAAG ATCT					120
	AATTAGAAAT TGTA					180
	CAAAATTATT AAGT					240
GGGCCACAAG	NGCNAAAATT TGTT	TCNAAA	AAAAAAAAGA	AAAGAAAGAA	AAAAAATTGA	300
	CCTAGATGTA AAAT					360
	TGTGTCTTGA ACAC				TTTATTTCAC	420
TTATCCTCA	AATTTAAGAT GAAG	TTTCTC	CTACTAACTC	GAG -		463
(2) TNEODM	מד משם פסם אחדיים.	NO. 770				

- (2) INFORMATION FOR SEQ ID NO:778:
 - (i) SEQUENCE CHARACTERISTICS:

 (A) LENGTH: 466 base pairs

 (B) TYPE: nucleic acid

 (C) STRANDEDNESS: double

 (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:778:

GAATTCGGCC	TTCATGGCCT	AGCTGGGAGT	TACCTGNTAT	CCTGATGGTG	CCATGTGCTA	60
GCTGGGTGAC	AATAACCCAG	CCACCTAACA	TCTCAAAGAT	TGTTCCTTTT	TGTGTGAAAT	120
AGGGATAGAG	TTGTCTACTT	CCCAGAGCCA	GATAGAGAAC	TTAAGAGATG	AATCTGAAAA	180
TACAATAGCC	TAAATAAATT	CAAGGAAACA	CTATTATCTT	ACTGGATCTT	TCCAGCAACC	240
ATGTTACTTT	TGGCTGGATT	TTGTATTTTC	CAATTTGTGA	ATGACACAAC	AAAGAGCTAG	300
GTAGGTTAAG	TAAATGGTTT	CAGATAATAA	GCCCAGTTAG	CCCAGACGTT	TATTTTCCAT	360
TTGCATAGAA	AATGAATGTT	TTATGCATAC	ATTTGTTTGC	CCAGGGCTAG	GATATTACTT	420
GCATATGATG	TTCTTATATA	AAAAAATTA	AGAATACAAC	CTCGAG		466

- (2) INFORMATION FOR SEQ ID NO:779:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 519 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: cDNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:779:

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GAATTCGGCC	TTCATGGCCT	AATTCCACAG	GGAAATGGGC	AGACTGAACC	AGTCCAGGTG	60
GTGAATTTTC	CAAGAACATA	GTTTAAGTTG	ATTAAAAATG	CTTTTAGAAT	GCAGGAGCCT	120
ACTTCTAGCT	GTATTTTTTG	TATGCTTAAA	TAAAAATAAA	AATTCATAAC	CAAAGAGAAT	180
			CAAGCCGAGA			240
GCGGCGTTAG	GGTTTGAGAG	AAGGGAATTT	GGCTCAACTT	CAGTTGAGAG	GGTGCAGTCC	300
AGACAGCTTG	ACTGCTTTTA	AATGACCAAA	GATGACCTGT	GGTAAGCAAC	CTGGGCATCT	360
TAGGAAGCAG	TCCCTGGAGA	AGGCATGTTC	CCAGAAAGGT	CTCTGGAGGG	ACAAACTCAC	420
TCAGTAAAAC	ATAATGTATC	ATGAAGAAAA	CTGATTCTCT	ATGACATGAA	ATGAAAATTT	480
TAATGCATTG	TTATAATTAC	TAATGTACGC	AGACTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:780:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 321 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:780:

GAATTCGGCC	TTCATGGCCT	ACTAGACCCC	CGCCACAGCA	GCCTCTGAAG	TTGGACAGCA	60
AAACCATTGC	TTCACTACCC	ATCGGTGTCC	ATTTATAGAA	TAATGTGGGA	AGAAACAAAC	120
CCGTTTTATG	ATTTACTCAT	TATCGCCTTT	TGACAGCTGT	GCTGTAACAC	AAGTAGATGC	180
CTGAACTTGA	ATTAATCCAC	ACATCAGTAA	TGTATTCTAT	CTCTCTTTAC	ATTTTGGTCT	240
CTATACTACA	TTATTAATGG	GTTTTGTGTA	CTGTAAAGAA	TTTAGCTGTA	TCAAACTAGT	300
GCATGAATAG	ATTCTCTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:781:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 560 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:781:

GAATTCGGCC TTCATGGCCT	AAATGGGAAT	CATCATTGCA	TAACAAACCT	AAAGAGAAAA	60
TGAGAACATT TACGAAGAAC	AAACAGAGTT	ACTGTACCAA	GGGCAAAAAG	AAAAGAAGGG	120
GGAAAAAAA TAAGTCCATA	AAAGAAAAAC	AAAAGGAATC	CATGAGCCTG	GACGACAAGC	180
CGTGGGGGAT GTAAGAAGGT	TTGGAACCCA	AAAGGCAAGT	CTAATCAGCT	GGGGTAACAT	240
GGCGAGGCAG TTCCACATGC	TGAGACTTGT	GGCTACCACA	TTAAAAAAGA	CTGTGCATAT	300
TCTAAATGAC AGCAGTCCTC	CAGTGACGTG	GATATTCACT	CTAGAAGCTA	TGCAGGCAGG	360
CGTGGGAAAA GCGAAGAGAT	GTTGCACCAT	GCAGCTGCAA	TCTTTATGTC	TCTACTGGCA	420
CAACCGAAAA GAGTAATGTC	GAAATTATCC	AGAGAATTTA	GGTGAGAAAA	ACAGAAGCCA	480
TCAGATTTTC TCCTTTAAA1	CTTCAGAGGG	GTATACACTC	CCCTGGAAAA	CCAAGTTGCC	540
TCTCTGCTCA CATCCTCGAG	•				560

### (2) INFORMATION FOR SEQ ID NO:782:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 633 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:782:

GAATTCGGCC	TTCATGGCCT	AGGGGAGTCC	TCATTCTGAC	CTCAAAGAAA	GGACTGTATT	60
GTCTGGCTCC	ATAATGCAGG	GGACACCAAG	AGCAACAACT	GAAAGCTTTG	AAGATGGCCT	120
TAAATATCCC	AAACAAATTA	AAAGGGAAAG	TCCTCCCATA	CGAGCATTTG	AAGGTGCCAT	180
TACCAAAGGA	AAACCATATG	ATGGCATCAC	CACCATCAAA	GAAATGGGGC	GTTCCATTCA	240
TGAGATTCCA	AGGCAAGATA	TTTTAACTCA	GGAAAGTCGG	AAAACTCCAG	AAGTGGTCCA	300
GAGCACACGG	CCGATAATTG	AGGGTTCCAT	TTCCCAGGGC	ACACCAATAA	AGTTTGACAA	360
CAACTCAGGT	CAATCTGCCA	TCAAACACAA	TGTCAAATCC	TTAATCACGG	GGCCTAGCAA	420
ACTATCCCGT	GGAATGCCTC	CGCTGGAAAT	TGTGCCAGAG	AACATAAAAG	TGGTAGAACG	480
GGGAAAATAT	GAGGATGTGA	AAGCAGGCGA	GACCGTGCGT	TCCCGGCACA	CGTCAGTGGT	540
AAGCTCTGGC	CCCTCCGTTC	TTAGGTCCAC	ACTGCATGAA	GCTCCCAAAG	CACAACTGAG	600
CCCTGGGATT	TATGATGACA	CCAGTGTCTC	GAG			633

# (2) INFORMATION FOR SEQ ID NO:783:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 407 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:783:

AAATGACACT GAATGACAC	TTAGCCAAAA	CTAACAGAGA	ATTATTAGAT	GTGAAGAAAA	60
AATTTGAAGA TATAAATCAG	GAATTTGTAA	AAATAAAAGA	TAAGAATGAA	AAAAATTATA	120
GAAACCTGGA AAACACTCAG	AACCAAATAA	AAGCTGAGTA	CATCAGCCTG	GCAGAGCACG	180
AGGCAAAGAT GAGCTCGCT	AGTCAGAGCA	TGAGAAAGGT	GCAGGATAGT	AATGCTGAAA	240
TCTTGGCCAA CTACAGAAA	GGCCAAGAAG	AGATTGTGAC	ACTGCATGCC	GAAATTAAAG	300
CCCAGAAGAA GGAGCTCGA	ACAATACAAG	AATGCATTAA	GGTAAAATAT	GCCCCAATTG	360
TCAGCTTTGA GGAGTGCGAG	AGAAAATTTA	AAGCAACAGA	GCTCGAG		407

(2) INFORMATION FOR SEQ ID NO:784:

240

300

360

420

480

488

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 342 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:784: GCAGAAAAGT CAGAACAATT TGAGGAGCTT CAAAGCATCC TTAAGAAAGG GAAACTAACT 60 TTTGAGAATA TTATGGAAAA ACTGCGAATC AAGTATTCCG AAATGTACAC CATAGTCCCT 120 GCAGAGATTG AATCCCAGGT GGAAGAATGC AGAAAAGCTT TAGAAGACAT AGATGAGAAG ATTAGCAATG AAGTCTTAAA AAGCTCACCA TCATATGCAA TGAGGAGAAA AATAGAAGAA 240 ATTAACAATG GGCTTCATAA TGTTGAAAAG ATGTTGCAGC AGAAAAGCAA AAATATTGAG 300 AAAGCTCAAG AAATTCAAAA GAAAATGTGG GACTCACTCG AG 342 (2) INFORMATION FOR SEQ ID NO:785: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 456 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:785: GAGATAATGG ATGAAAGGAT TCAGAGGAAA GTAGAGAAAC TAGAGCAACA ATGTCAGAAA 60 GAAGCCAAGG AATTTGCCAA GAAGGTACAA GAGCTGCAGA AAAGCAATCA GGTTGCCTTC 120 CAACATTCC AAGAACTAGA TGAGCACATT AGCTATGTAG CAACTAAAGT CTGTCACCTT 180 GGAGACCAGT TAGAGGGGGT AAACACCC AGACAACGGG CAGTGGAGGC TCAGAAATTG 240 ATGAAATACT TTAATGAGTT TCTAGATGGA GAATTGAAAT CTGATGTTTT AACAAATTCT 300 GAAAAGATAA AGGAAGCAGC AGACATCATT CAGAAGTTGC ACCTAATTGC CCAAGAGTTA 360 CCTTTTGATA GATTTTCAGA AGTTAAATCC AAAATTGCAA GTAAATACCA TGATTTAGAA 420 TGCCAGCNGA TTCAGGAGTA TACCAGTGCT CTCGAG 456 (2) INFORMATION FOR SEQ ID NO:786: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 488 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEO ID NO:786: GAATTCGGCC TTCATGGCCT AGGGGTGAGA GTGTAGACGG CTTTCCCAGT TGTATCCAAG 60 GCAGTCAGAC AGGGGGATTT GGGCTGTGTT GTGCCCCAGC GCTGCAAGGT GGCCAACAGC 120 GACGGCGGTC GGGGGACACC TGCAGTGAGA GGCTCCCCTC TCAGCACACT CGTCTCGCTT 180

CCCTCAGGCT TTGGCTGATT TGGATCTGGT TGCTGAACTT CCAACAATTC CTCAAAATCA

TCCACAAAGA ACTCCTTCAG TGGAGGGCGC TTTGGCCTCT TCAGGGTGTT CAGAAGCTGC

TGGATTTTGG AGGACACTCT GCTGTTCACA GGGACACCAT CTGCTGTTTC CAGCATGCTC

CCGCTGCACC CCCGAGGAAC ACTTCTCACA GAAGCCACCT GTGGACGCTC AAAGTACGAA

TGCTCCACGA GGCCCGTGGT GACATCAGGA GGGGCAGAAT GCAGATCTAT GTGGGTGTGG

GCCTCGAG

- (2) INFORMATION FOR SEQ ID NO:787:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 452 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:787:

GAATTCGCCT	TCATGGCCTA	AGTGTCCGGA	ACATATGTCA	TGATTCTATG	TCCAAACAAC	60
AGGCCAACCC	TCAGGACAGA	CCCCGCCACC	CCCCTTCTCT	GCAGCTCCTG	GCAGGGACGG	120
TGCACAGTGG	TGCCGTGTGC	AGGGGGCCAG	CGCAGCCACT	GGGCATCTGG	GGCAGCGCTG	180
GTCGCCTGGC	CACCTCCTTG	CTGGGGCCGC	TGGGCCTCCG	GCCTAGAAGG	ACAGGAAGCC	240
ATCCACCTCA	AGGCGCAGGA	AGGGGTCCAG	CAGGGCCCGG	AGCTTCCAGA	TGGTGGCACG	300
GCTCAGCAGG	GGCGGCACCA	GCCCCTCGAA	GGGCCTGGGG	TTCACCATGT	ACACGTAGGC	360
GACCAGCAGG	GTGCCCAGCA	GCAGCCTCAG	GATCAGCAGC	CTGAGAATCT	CCAGCTGGAT	420
GTCCTCCATC	TGGTCCCTAG	ACCTGCCTCG	AG			452

- (2) INFORMATION FOR SEQ ID NO:788:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 388 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:788:

GAATTCGGCC	TTCATGGCCT	ACAGGACAGA	GGCAAATAGT	AGACAAAGGT	GAAGCCAAAG	60
GCATAATTAA	GGAAGGAAGA	ACGATATTAC	CAAAAGATGA	AACTGAAAAG	AAAGTCTTAA	120
CTGTGTCAAA	TTCTCAAATT	GAAACTGAAA	TTGAAGTTCC	ATCGTCCGCA	GTTCCAGAAC	180
ACAGAATGTA	TGAAAATCAA	AGTCAGGTGG	TTCTTGTAGA	AAACCTTCAT	GTTAACAAAA	240
CAAATGAAAC	AATCAGACAT	GAAAATAAAC	CGTATGTTCC	TAGTTCAGCA	CAAATGACAA	300
GAAGGAAATT	CCAAAAGGCT	AAGCCAAATT	TGGGAAGAGC	ACACAGTAAG	AAAGAGGAAC	360
CAGTTTTAGA	AAAAGTCACA	AACTCGAG				388

- (2) INFORMATION FOR SEQ ID NO:789:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 457 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:789:

GCCTGAAGAC	ATCAAAAAGG	AGGCAGCCCG	GGCTTCTAGG	AAGATCTGCT	TTGTGTGCAA	60
GAAAAAGGGA	GCTGCTATCA	ACTGCCAGAA	GGATCAGTGC	CTCAGAAACT	TCCATCTGCC	120
TTGTGGCCAA	GAAAGGGGTT	GCCTTTCACA	ATTTTTTGGA	GAGTACAAAT	CATTTTGTGA	180
CAAACATCGC	CCAACACAGA	ACATCCAACA	TGGGCATGTG	GGGGAGGAAA	GCTGCATCTT	240
ATGTTGTGAA	GACTTATCCC	AACAGAGTGT	TGAGAACATC	CAGAGCCCGT	GTTGTAGTCA	300
AGCCATCTAC	CACCGCAAGT	GCATACAGAA	ATATGCCCAC	ACATCAGCAA	AGCATTTCTT	360

	GTAACA ATCGAAAAGA ( GAGATG CTGCCTGGGA )		GAAATGCTGA	GAATGGGAAT	42 45
(2) INFORMATION	FOR SEQ ID NO:790	:			
() ()	ENCE CHARACTERISTIC A) LENGTH: 582 base B) TYPE: nucleic ac C) STRANDEDNESS: do D) TOPOLOGY: linear	pairs id uble			
(ii) MOL	ECULE TYPE: cDNA				
(xi) SEQ	JENCE DESCRIPTION:	SEQ ID NO:	790:		
TACAGTTTTC GCCA CAATAAAAAC TGCT TTTCTATGTG AATG AGGTGGTGGT GTTG GCCTGGAATT GTTC TATTGGGAAC ATGG TGTCGGGTTT GACA TGTCCAGCCT GTGA GGGGTCAAAA GGTG	TGGCCT AGCGGCAGCG CCATGA GTCGCAGCA TGGAGAATT CGGGAGAATT CGTGGCAGC CATCGAT CTATTGGGCT TCAGCT GTGGTGTCCG CAGCACT GTGGTGTCCG CAGGAGC AACTTGCCAA FCATCC CAATGAATGA CTATCC CAATGAATGA CFOR SEO ID NO:791:	IAATGATGAG CTTCGTGCCC SATGTTTGAG CATGANACAG ICCTGATGTC IGACCCTGAA CTTGCTAAGA AGCTATGTTT CAAAGACTCG	CTGCAGTTCT AACATGCAGG GAATTAAGGA ATTGGCAATG CATTCAGGAT GCAGTAGTAT ACCAATTTAG GACCACATTC	TGGAGAAGAT TTGAAGGTGT ATGCCTGTCG TGGCAGCCCT ATGGGTTTGC CCCCAGGTGG ATGAAAGTGA	60 120 180 240 360 420 480 540 582
(i) SEQUI (A (E (C	ENCE CHARACTERISTIC LENGTH: 468 base TYPE: nucleic ac: STRANDEDNESS: do TOPOLOGY: linear	S: pairs id uble			
(ii) MOL	ECULE TYPE: cDNA				
(xi) SEQ	JENCE DESCRIPTION:	SEQ ID NO:	791:		
CTACAGTEAA GGAC TTCTCACTGT TCTG AGCTCTGAAC TGTA AAACCAGACC CTGT GTTTTTGTAA AGAG GCAGTCAGCT AGGA	TGGCCT ACATTTTCTG A TTTGGC ATGTGGCAG I CAATGC TCATGGCAAG I TTCAGA CCGACTGGGT A AGTCCA GTGGTGCTGC C CTTCCA TCTGGGCTGG A CCTTTC CGCCATGTAT I TCTGTT ATTTTTGGTT I	TGAAACTGAG TTGAATGGTG ATCTAGCTTA CCTGTTGTGC ACCCAGTTCT TCTATTCTGT	CTTTTTTGTG AGCTAGCTTA CTGTTTTAAC AAACTGCTCC TGCACATACA AGTAAAGCAT	TGGGCTCCAG TAAATTAAAG ATCATTGTTG TTTTTCTCGT AGACACCGCT	60 120 180 240 300 360 420 468
(2) INFORMATION	FOR SEQ ID NO: 792:	:			
. (£	ENCE CHARACTERISTIC A) LENGTH: 519 base B) TYPE: nucleic ac C) STRANDEDNESS: do D) TOPOLOGY: linear	pairs id uble			

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:792:

GAATTCGGCC	TTCATGGCCT	ACGTGGCTAT	AACTGGAAAA	CTGGATCCGA	AATCGACCAG	60
TAAACTGGGT	AGCTCGGTCT	ACGCCCCGCC	CACCACCCTT	GCTAGCCAAT	AGCCTTCACA	120
ACTCTTCTGC	CACTCCCGCC	CATTCCAGTG	CTGTGCCGCT	GCTTTTTCTT	CCACTCGGAT	180
CTCTTGAGCG	CCCTTAGCCC·	GCTGTATACG	CGCCCCTCCT	CGGCTTCAGT	AGGCAAGAGG	240
GCCATCTGCC	CTTCCTTCCT	GAAGGTAGAG	GGGACAACAC	CAGCTACGAC	GGGGACTCCA	300
GAAGTCCATC	TCCCGAACAG	CAGCGGGGCG	AAAAGAAAGA	AAAAGGGTTT	CCGAAGACTC	360
CTACTCACAC	CCACGCTTTC	CCTTAACCCG	GAAGTGATTT	CCGCCCCTCC	TCTCCCTCTT	420
CGGTTGATAC	TGGAGGAGAA	GGACGGCCAG	GTCTGGCCCG	GCATGCCCTG	GGCTTCCGGT	480
GACCTCTGGC	CCTTTTCTGT	CGTCCACTCT	CCGCTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:793:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 338 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:793:

GAATTCGGCC	AAAGAGGCCT	ACAGAAACAT	CCAATTCTCA	AACTGAAGCT	CGCACTCTCG	60
CCTCCAGCAT	GAAAGTCTCT	GCCGCCCTTC	TGTGCCTGCT	GCTCATAGCA	GCCACCTTCA	120
TTCCCCAAGG	GCTCGCTCAG	CCAGATGCAA	TCAATGCCCC	AGTCACCTGC	TGCTATAACT	180
TCACCAATAG	GAAGATCTCA	GTGCAGAGGC	TCGCGAGCTA	TAGAAGAATC	ACCAGCAGCA	240
AGTGTCCCAA	AGAAGCTGTG	ATCTTCAAGA	CCATTGTGGC	CAAGGAGATC	TGTGCTGACC	300
CCAAGCAGAA	GTGGGTTCAG	GATTCCATGA	ACCTCGAG			338

- (2) INFORMATION FOR SEQ ID NO:794:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 756 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:794:

GAATTCGGCC	AAAGAGGCCT	ACCAGGATGG	TCTCAATCTC	CTGACCTCAT	GATCTGCCTG	60
CCTCGGCCTC	CCAAAGTGCT	GGGATTACAG	GCGTGAGCCA	CCGCACCCGG	CCCTAAACCC	120
TAGGTTTTGA	CTTCTGTAAG	AAGGAAAGAT	TTAAACAAAC	AAACAAACAT	TAAATTACAA	180
CCATAATAAA	CAAAAAAACA	CTAAACTAAA	TTACAACCAT	AATAAAATCT	CCCAAAGTCC	240
GTAGGCACTG	ACATATTACA	GCCTTGCCAA	ATCAGAATAG	ATTTÇTCATG	TGTTGTCAAT	300
TTACCAGACA	CAAAGAGTAG	CTCAGATCTC	ATAGACTCTT	CAGATCTTGT	AGACTAATTT	360
CAAGTCTTTT	TAAAGTTTTG	AAAAACATGT	GCTATTTGGA	ATTACGTCAT	CCTCGAATAT	420
TAAACCTGAG	CTCAAAAACC	TATTGTTTGA	TATTGGAAAT	AGTTAACTCC	AGTTTTCTTC	480
TATTAAGATA	AAATTCTTTC	ATCATGTCTG	TGCCCTCTAA	AATAATACTC	CTATTGCTTT	540
GTCTTCCCCT	TCTCCCCTCC	TAGTCCTTCT	TTAGTCATTC	TATTTAGAAT	CAAGTCGCTC	600
ATGAGTTTAA	GAATTAGAGC	AGCAAGAAAT	TGGGCTAGAG	ATGTACAAAA	GCTTTGGACA	660
ATAGTAGTTT	TGCTTGTCCT	CATTCTTATT	AGAAGTGCTG	TTAATTTACT	GATAAATTCT	720
AGGACGGAAG	ACAAATCTTT	GCAACTGGTA	CTCGAG			756

- (2) INFORMATION FOR SEQ ID NO:795:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 648 base pairs
    - (B) TYPE: nucleic acid

- .(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (11) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:795:

GAATTCGGCC	AAAGAGGCCT	ACCAGGAAGC	TCTCCTGCTT	GTCATGAAGT	GAGAACAATG	60
AAAAGTCATA	GCAGATACTC	AGTTTAACTC	TGTGTAGAAC	CTATTAGTGT	TTGAGCTGTT	120
ATTCAGATTT	GAATTCAGAC	TGTGTGTTGT	TTGCTTATGG	ACACTGCCTG	TCGTTCTGTC	180
ACTGTTAAAT	TAATGAGTCT	ATAAGGTTTT	TCTTCCAGAG	GCCATAGGTG	ACATCACTAA	240
AATTGCAAGA	TAAATTGTAA	TCTTTGNTGN	TGCTGCACTC	CCCAACCTCT	CCCCCACCCC	300
CCGTGGTGTG	CTGCTTTCTA	GATGAGCGTG	TTTTGGAGCA	GGCCCATCTG	GGACACTCTA	360
TGCTTTCACC	AAGGAAGTGC	GATCTGAGCA	GCCACAATCC	AGCCAAAAGA	GGATCGTAGA	420
TATTTGCTCT	GATCAACTAG	ATGAAAATAT	AGCAGAATGG	ATTTAGCCCA	CTGCTCTGTT	480
TTATCCAACT	GAGTCTCTGA	CCAGCAATTG	GTGCATAATT	ATTACAGCAA	AAGTTAAGAA	540
ATGAAACTGT	AGCAATTATG	TAAATGAATG	TGTTGGCCTC	TTAATACCTG	TTACTAGTGG	600
ACTTCCTGTG	AGGAAGTTAG	TTTTTTTTTT	TGATGAAATG	CTCTCGAG		648

- (2) INFORMATION FOR SEQ ID NO:796:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 610 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:796:

GAATTCGGCC	AAAGAGGCCT	AAGAGGCTGG	CCCCAGTCCC	AAGGAACAAG	AGATGGTCAA	60
GTCGCTAGAG	ACATATCAGG	GGACATTAGG	ATTGGGGAAG	ACACTTGACT	GCTAGAATCA	120
GAGGTTGGAC	ACTATACATA	AGAACAGGCT	CACATGGGAG	GCTGGAGGTG	GGTACCCAGC	180
TGCTGTGGAA	CGGGTATGGA	CAGGTCATAA	ACCTAGAGTC	AGTGTCCTGT	TGGTCCTAGC	240
CCATTTCAGC	ACCCTGCCAC	TTGGAGTGGA	CCCCTCCTAC	TCTTCTTAGC	GCCTACCCTC	300
ATACCTATCT	CCCTCCTCCC	ATCTCCTAGG	GGACTGGCGC	CAAATGGTCT	CTCCCTGCCA	360
ATTTTGGTAT	CTTCTCTGGC	CTCTCCAGTC	CTGCTTACTC	CTCTATTTTT	AAAGTGCCAA	420
ACAAATCCCC	TTCCTCTTTC	TCAAAGCACA	GTAATGTGGC	ACTGAGCCCT	ACCCAGCACC	480
TCAGTGAAGG	GGGCCTGCTT	GCTCTTTATT	TTGGTCCCGG	ATCCTGGGGT	GGGGCAGAAA	540
TATTTTCTGG	GCTGGGGTAG	GAGGAAGGTT	GTTGCAGCCA	TCTACTGCTG	CTGTACCCTA	600
GAAGCTCGAG						610

- (2) INFORMATION FOR SEQ ID NO:797:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 286 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:797:

GAATTCGGCC	AAAGAGGCCT	AGCCACTATC	CTGGTTACTT	GTGGATTCAC	CAAGCAGTCC	60
AGCAAGTCAT	CCGTAGAAAT	GAATGTTTGA	GGAGTCGTAG	TAGTATTTGA	GGCAATCTGT	120
TCCTCAATTG	CATTTTCACT	GTTGCTCATT	ATTTGTTGTC	TCTTGGCACA	ATGCAATTTT	180
CCAAAGTGTT	CTCCATCCTT	GTCCACAAAG	TCTTTCCCAT	CACTTCCAAA	TATGCCTCCT	240

286

CTTTCTGAAG GCGGTTCTTC GGACCTCTGT GCTACAGGGA CTCGAG

(2) INFORMATION FOR SEQ ID NO:798:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 163 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:798:	
GAATTCGGCC AAAGAGCCT AGTTTTTAT TGGTTTGGAG ACTAGAGCCA ATAGTATAAT GTTCTCAAAG GAAACAGACT TGAGTTGTTG GATTAGAGGA ACTAACCCAA CTTATATGAT TTTTTTTTTG TTTTTGTCGT GTAGTTATGG CACTAGTCTC GAG	60 120 163
(2) INFORMATION FOR SEQ ID NO:799:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 443 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:799:	
GAATTCGGCC TTCATGGCCT AGAGGGAATG CGGAGAGGGG TGGAGAAATT CCATCTTTGT TAGGGCAGCA GTCAAGGATG AGTGAGTTAG CCTCTTAAGG AAGAGGCTAA GCTGTTAGAA TAAAGAGGTT TACAACATCA GCGGCTTAAA TCAAATAGAA GTGTGTTTCT CTTTCACATG ACAGAGTAGA TGTGGCCTGG CATCTAGAAA GCATATTTGT CTCTGGTCCA CTGTGTCTTC CAGGGACCCA TTCTTCTCTT GTCTTCATGC TCCATCACTT CCTAGGGTGT TGTCTACACC TGCATAGCCA TAGCTAATTT TCCATTCTCA GCACCAACCA GGGGAAGAGG AGGAAAGGTA GCCTCCTTTT CATGATAGGT GTGAAGTTAT GCAGGACACT CTCAGGGTGA ATGGACCACA GTGTGGCTCC TCCTGGGCTC GAG	60 120 180 240 300 360 420 443
(2) INFORMATION FOR SEQ ID NO:800:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 305 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:800:	
GCATGTGCAG CGGCAAAGAG AACCCGGACA GTGATGCTGA CTTGGATGTG GATGGGGATG ACACTCTGGA GTATGGGAAG CCACAATACA CAGAGGCTGA TGTCATCCCC TGCACAGGCG AGGAGCCTGG TGAAGCCAAG GAGAGAGAG CACTTCGGGG CGCAGTCCTA AATGGCGGCC CTCCCAGCAC GCGCATCACA CCTGAGTTCT CTAAATGGGC CAGTGATGAG ATGCCATCCA CCAGCAATGG TGAAAGCAGC AAGCAGGAGG CCATGCAGAA GACCTGCAAG AACGGTCGAC TCGAG  (2) INFORMATION FOR SEQ ID NO:801:	60 120 180 240 300 305

- WO 98/45437 PCT/US98/06956 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 464 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:801: GAATTCGGCC AAAGAGGCCT AAACACTCAA ATTTTACATT TTGAGCAGTA TTTACGCCTG AATTAATTCA CAAGTTTCAA GGTCACTAAC TTTGGTTATA TTATATTATT ATTTTCCAAT 120 TTAGCCACCT CTTTATTTGT ATAATAGAGC ATACAGCAGC ACATAAAACG CAAAACTCTA 180 GGACATAAAA AGTGGCATTC GGACGATGTT GCTCTGAAAT TTATGCATTA ATTAAACCGG 240 TATATATGTA TGCATTAATT AAACCAATAT TTATGAAGTT CCTACTGTGT TACAGACGTG 300 GATCCAGGCA CTGAGGATGC AGCAGGCCAT CCAAATATAA AGTTACTTCC TTAGGAAGCT 360 TCCATTCTAA TGGGAGAGTG TTGTTAAAGA GATATATAAT AATATGTAAA ATGAATCCAT 420 AATGGTGAGT ATTATGAAGA ATAAAATTGC CAGGTTTTCT CGAG 464 (2) INFORMATION FOR SEQ ID NO:802: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 650 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:802: GAATTCGGCC AAAGAGGCCT AATCTTCTGC CTGTTCTGAA AAAGCTTTGC TTCTTGTGAT TTGTATCACG AGGGGGAAAG GTCCTTACTG TTTTTCCAGA CCTACAGTTG TGATAGAGGC 120 TCCTCCCAGC CCCGCCCACA GACCCCAACA GTGCCCTCTC TCACAAATGG ATTCTGGGGC TTGGTCTTTA TTTTTGTTTT TGTTGGGGGC AGCATATGGA ACCCAAAAAT AGTATCATAG 240 CCTAAATTTG GAGCTTTGTG CCAGCCTTGT CTGTAGGATG ACCCGTGTGG GTCTCACCTG 300 GTGACTGGGA GTCCACAGGG GTCAGTTAGT AGCAGGGAGC TGCAGGGCGC CTGTCAGCAG 360 AGACCGTCTC ATTCCCCAAA CCCAGGAGCC AGAGGAACTG ACGCCCGGAT AAATGCCCAA GCCGCCCCGG GTGGGATTAG TCGTCTACCT TCCCAGAAAT ACACCCTCCC ATCCTGTGAC 480 TTGGATACAG TTTACTGATG AAATTAGGGA ACCTCCTGCG CCTTACCAAG AAGCTGTGGC 540 TGGAACTTAG TCAATGAAAA ATGATTTGTA AACTCTTTGG AGCTGGCTTT GAAAGAATGT 600 TTAAAATGAT AGCTGATACT GCCAGACAAC AGAACAGGCC GGCCCTCGAG (2) INFORMATION FOR SEQ ID NO:803: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid

  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:803:

GAATTCGGCC AAAGAGGCCT AAGAGAACAG GAGCATTACA GTAAAATTCC TAAGTAGCCA ACTGATTTGC AGTGCCAGAA ATGAATACCG ATCCACTCGA G

(2) INFORMATION FOR SEQ ID NO:804:

60

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 723 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:804:

GAATTCGGCC	AAAGAGGCCT	AGCTCTCTGT	ACCCAAGGAA	AGTGCAGCTG	AGACTCAGAC	60
AAGATTACAA	TGAACCAACT	CAGCTTCCTG	CTGTTTCTCA	TAGCGACCAC	CAGAGGATGG	120
AGTACAGATG	AGGCTAATAC	TTACTTCAAG	GAATGGACCT	GTTCTTCGTC	TCCATCTCTG	180
CCCAGAAGCT	GCAAGGAAAT	CAAAGACGAA	TGTCCTAGTG	CATTTGATGG	CCTGTATTTT	240
CTCCGCACTG	AGAATGGTGT	TATCTACCAG	ACCTTCTGTG	ACATGACCTC	TGGGGGTGGC	300
GGCTGGACCC	TGGTGGCCAG	CGTGCATGAG	AATGACATGC	GTGGGAAGTG	CACGGTGGGC	360
GATCGCTGGT	CCAGTCAGCA	GGGCAGCAAA	GCAGACTACC	CAGAGGGGGA	CGGCAACTGG	420
GCCAACTACA	ACACCTTTGG	ATCTGCAGAG	GCGGCCACGA	GCGATGACTA	CAAGAACCCT	480
		CAAGGACCTG				540
		CTCCCTGCTG				600
		TGGCATCTAC				660
AAGTGTTGGA	CTGACAACGG	CCCGGTGATC	CCTGTGGTCT	ATGATTTTGG	CGACATCCTC	720
GAG						723

- (2) INFORMATION FOR SEQ ID NO:805:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 406 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:805:

GAATTCGGCC	TTCATGGCCT	ACGGCCAAAG	AGGAGGAGAT	GGCGCCAGTC	AGGGAGCGGC	60
CGTGGCCCAG	ACAGTGAGGA	AGCGCGAAGG	CGGAGCAACC	GAGGAATCCT	CCGGAGAAGA	120
ATCAGAGCCG	TCGCTACCGC	CACTACCGCC	ACCACCATGG	AAGGAGCAAA	GCCGACATTG	180
CAGCTCGTGT	ACCAGGCAGT	GCAGGCGCTT	ACCACGACCC	AGATCCCAGC	GGAAAGGAGC	240
GCGCCTCTTT	TTGGCTTGGG	GAGCTGCAGC	GTTCGGTTCA	TGCATGGGAG	ATCTCAGACC	300
AGTTGTTACA	GATCCGGCAG	GATGTGGAGT	CATGCTATTT	TGCTGCACAG	ACCATGAAAA	360
TGAAGATTCA	GACCTCATTT	TATGAGCTCC	CCACAGTACT	CTCGAG		406

- (2) INFORMATION FOR SEQ ID NO:806:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 329 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:806:

GAATTCGGCC	TTCATGGCCT	ACGCCCGGGT	TGGAAGTGTG	CAGTCAATGA	GCTCCCGCTC	60
CTCCTGGATC	CGTCTGTAGG	TCTCCCCGGT	GTGCATGAGC	AGCTCACTCA	CTGGCTTCTT	120
TAGGTGTTCG	CTGAGGGCTT	CCTGCTGCTT	CTTCCGCAGG	GCTGTGTTAC	GCTGCCAGTT	180

TTTTTGCTTT GACTCTCCTT CAGCAGAGAT GAGGGTCATC AGACAGGGTG AGGTAGGTAT CCGCTCAGCC AGCTGGGTGT TCCCTCGAG	300 329
(2) INFORMATION FOR SEQ ID NO:807:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 225 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:807:	
GAATTCGGCC TTCATGGCCT AAGGTACTTT AATCAGTCTA AATACTTGAA CATTTTATT TCAGTGGTAA AAAATAGACT GAGGCAGAGT GAAGTTATAA ATTAGAATCT AAAAATTTAC CCTTCAACAT TAATATTTTT TAGTGCTCTA ATATAAAACA CAGAAAACCT ATCTCAAATA TAAAAAGATGA ATATAAAATT ATTAATTAAA CAACTGGCGC TCGAG	60 120 180 225
(2) INFORMATION FOR SEQ ID NO:808:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 275 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:808:	
GAATTCGGCC TTCATGGCCT AACTTGCTCT TCTGTTTCTA GTTTTATAAA GTGAAAGCTG CAATCATTGA TTAGAGACAG TTCTACGCTA AAGTCATAAT GACATTTTAT GTAATTTCTT TTTTCTTTTT TTTGAGACAG AGTCTCGCTC TGTTGCTCAG GCTGGAGTGC AGTGGAGTGA TCTCAGCTCA CTGCAACCTC TGCCTCCCAG GTTCAAGCGA TTCTCCTGCC TCAGCCTCCC GAGTAGCTGG GATTACAGGC CCCCCACCAAC TCGAG	180
(2) INFORMATION FOR SEQ ID NO:809:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 253 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:809:	
GCGATTGAAT TCTAGTTGCC TACCTACCAA ACTACCTACT GAACTTTTTA ATTTGAAGAT ATTCTTCCTG GACTACTTGT TTATAGTTTA TTAAATGAAC TGCTCTATTT CTAAAAACTT TATTTTTAAA GTCCTTTCCC GTTTAGAATG CGGCATACTC TTGCTTGTGG GGTATATATC TCTGATCGTG ATAACTACCT ACCGAAAACC TTTCATGGCT CCTTGCCAAC TACAAAATTG CGATATCCTC GAG	60 120 180 240 253
(2) INFORMATION FOR SEQ ID NO:810:	

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 283 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:810:	
GAATTCGGCC TTCATGGCCT AGATTGAATT CTAGACCTGC CGACGCGGG AGAGACAAAA AAGAGAAAGT CTTTGAAAAG CACAAGGAGA AGAAGGATAA AGAGTCCACA GAAAAGTACA AGGACAGGAA GGACAGAGCC TCAGTGGACT CCACGCAAGA TAAGAAAAAT AAACAGAAGC TCCCCGAGAAA GGCTGAAAAG AGCACGCTG CCGAAGACAA GGCTAAAAGC AAACACAAAG AGAAGTCGGA CAAAGAACAT TCCAAGGAGA GGAAGTCCTC GAG	60 120 180 240 283
(2) INFORMATION FOR SEQ ID NO:811:	-
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 316 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:811:	
GAATTCGGCC AAAGAGGCCT AGGCTTCCAC CCAGGAAATG ATCCAGAGCC TCTTTATGT TATGTTTTTT GTTTGTTCT TTCAAGACAA TCGATCAAGC CAGAGGCATT CCCCACCCTT CAGCAAGACA CTTCCCAGTA AGCCCAGCTG GCCTTCAGAG AAAGCAAGGC TCACCTCCAC CCTGCCGGCC CTGACTGCTT TGCAGAAAACC TCAAGTCCCA CCCAAACCCA AAGGCCTCCT TGAGGATGAG GCTGATTATG TGGTCCCCGT GGAAGATAAT GATGAAAACT ATATTCATCC CACAGAAAAAG CTCGAG	60 120 180 240 300 316
(2) INFORMATION FOR SEQ ID NO:812:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 256 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:812:	
GGGATGCATA GATTTAGTTC TGCCTCACAG GCAGGTAGCC TGAGCTCCTA GGGGGAACTG TTTTTGCTAA GTAGGGAATG AAAAGCATGT TTATTTAAGC ACAAAATTAA ATCTCTCCTA TTTTTATATG ATTTCCCGTT GTTTTCTTCC CTGTAGGGAA ATCTGCTGTG ATAGAGAACT GCGTAACAGG CCTTTTCTGT GAGCGCTCAC TCATACATTA TGCACGACGT GGCTAAGATC TTTGATGGCA CTCGAG	60 120 180 240 256
(2) INFORMATION FOR SEQ ID NO:813:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 317 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li></ul>	

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:813:

GCAAGCGGCG	CATGCAGGAG	GAGAAGCAGA	AGTCTGTCAA	CGTCAAGAAG	ACCATCCTGG	60
				GCACGCCCC	• • • • • • • • • • •	120
GCGAGCCTCC	CGTGCTGCCC	GTATCTCGCA	TGGCCTCCAT	CCCCTCCATG	ATCGGGGAGA	180
AGCTGCCCAC	CGCCAAGGGG	TTGGAGGCCG	GGCTGGACAC	ACCCAAGGTA	GCCACCAAAG	240
GCAACTATAT	CGAGGTGCGC	ACAGGCGCCG	GCGGGGACGG	TCTGGCTCGG	CCCGAGGATG	300
ACCTCCCGGA	CCTCGAG					317

- (2) INFORMATION FOR SEQ ID NO:814:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 370 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:814:

GAATTCGGCC	TTCATGGCCT	ACGAACTCCT	GACCTCAAGT	GATCGGCCTG	CCTCAGCCTC	60
CTAAAGTGCT	GGGATAGCCA	CTGTGCCCAG	CCTAGCCCTT	$\mathtt{CTTCAAATGT}$	TTGGTAAAAT	120
TCAGCATTGA	AGCCATCAGG	TCTTGGGCTT	TTTGCTGGGA	GATTTTTTAT	TATGGCATCA	180
ATCTCATTAC	TTGTTACTGG	CCTGTTTAGG	TTTTCAGTTT	TTTCATGGTT	CAATCTTGGT	240
AGGTTGTTTG	TGTCTAGGAA	TGTATCTGTT	TCTTCTAGGT	TTTCCAGTTT	CTTGGCGTAT	300
AGTTACTCAT	AGTAGCCACT	AATTATCCTT	TGGATTTCTG	CGGTATTGGT	TGTAGTGTCC	360
CCATCTCGAG		,				370

- (2) INFORMATION FOR SEQ ID NO:815:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 382 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:815:

GAATTCGGCC TT	CATGGCCT AATT	BAATTC TAGACC	TGCC TCAAGCCTA	T CTTTTAGTCT	60
TCCTAGAAGC AC	CGTGTTCT GTGG	AACTCA GCATCA	GCAG CTTTGCTGA	AG GACTCCCCCA	120
TCTTCCTTTC CT	TCCCCGGA AAGC	ACAGAC CTAAGT	GAGT CTTCACTGO	A TCCCAGCTAA	180
CAGCTTCTGC CC	ATTCCTAT CTTT	CCACAG AGCCAG	TGGC AGCCCCAGG	CT GCAGCAGCTA	240
CGTGACATGG GC	ATCCAGGA CGAT	BAGCTG AGCCTG	CGGG CCCTGCAGG	CACCGGTGGG	300
GACATCCAAG CA	GCCCTGGA GCTC	ATCTTT GCTGGA	GGAG CCCCATGA	AC TCCCTGCTTC	360
CCCTGAACCC CC	AGCACTCG AG				382

- (2) INFORMATION FOR SEQ ID NO:816:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 274 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

	(D)	TOPO	LOGY:	linear
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- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:816:

GCCACGGTGC	TCATTCAGAC	TACCCGTGTG	CCCAAGCAGG	TGGCAGTACC	CGCGACAGAC	60
ACCACTGACA	AGATGCAGAC	CAGCCTGGAT	GAAGTCATGA	AGACCACCAA	GATCATCATT	120
GGCTGCTTTG	TGGCAGTGAC	TCTGCTAGCT	GCCGCCATGT	TGATTGTCTT	CTATAAACTT	180
CGTAAGCGGC	ACCAGCAGCG	GAGTACAGTC	ACAGCCGCCC	GGACTGTTGA	GATAATCCAG	240
GTGGACGAAG	ACATCCCAGC	TGCAACATCT	CGAG			274

- (2) INFORMATION FOR SEQ ID NO:817:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 356 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:817:

GAATTCGGCC	TTCATGGCCT	ACAAAAATAC	ACCTGTGGTC	CCAGCTGCTC	GGGAGGCTGA	60
NTTACGAGAG	TCCCTTGAAC	CTGGGAGGCG	GAGGTTGCAG	TGAGCTGAAA	TCATGCCACT	120
GCACTCCAGC	CTGGGCAACA	GAGCGAGACT	CTGTTNAAAA	ТАААААААА	AGCGAGAGAT	180
CGAGAGAGAG	TGCACGTGAG	AAGACTAGTA	GTTGCTATGG	ACTGGGGGAG	AAGGAACGGG	240
TTACAGGGTT	TCTTTTGGGG	ATAACGAAAA	TGTTCTAAAA	CTGGACTGTG	GTGATAACTG	300
CACAACTCTG	TGAATGTACT	AAAAACTACT	GAACTGGCCG	GGCGCGGCAG	CTCGAG	356

- (2) INFORMATION FOR SEQ ID NO:818:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 184 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:818:

GAATTCGGCC	TTCATGGCCT	AGGCAGGGTG	TCAACTTATT	TAATTCTAAA	ΔΑΨΑΩΨΑΨΑΨ	60
				******	MILLOININI	• •
ጥሮ አጥ አር አር አጥ	<b>カクサカサクカサクク</b>	TCATTTCATA	TATTOAAAA	ATTCABACAA	COUNTRACTRAAA	120
ICHINGAGAI	ACIAICAICC	ICHIIICHIN	THITCHMANN	WII CHAMBAM	GITAMGIAM	120
TTCCCAAAAC	TCACCCACAT	AATAAGTAGA	A A A C A TO COM A	A COUNT A TOTAL	COMMOCOCOM	180
TIGCCAAAAG,	ICACCCAGAI	WATHWRITHON	WWWGWIGGIW	AIGMMAICCA	GGTIGGCCII	100
CGAG						7.04
COMO						184

- (2) INFORMATION FOR SEQ ID NO:819:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 349 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:819:

GAATTCGGCC	TTCATGGCCT	ACAACAACAA	CAACAAAAAA	ACATCATCCG	GGGAAGCTTT	60
TCAATATCCT	GACGTTGGGT	CTCTCCAGTG	TAGATGGAAA	${\tt TATGGAATTG}$	GGAATAGACA	120
TCGATATTTT	TGGAGGTCCC	CAGGGGTTAC	CAATGTGCAG	ACAGGTTTGG	GAACCACTGC	180
ATTAGGCATT	TTACATTTAT	TTAGGGCTTT	CACTGGATTT	GTCACCCCAT	ACTTTCATAA	240
TCCATTTTTT	CTGATTTTTT	TTCTGGTTTT	TGGTGAGGGT	${\tt ATAGTTGGGA}$	TGGGGTTTTT	300
TTTTTTGTCC	TCCCACCGCT	CGCCCCCATC	CAGTGTGGAC	GTACTCGAG		349

- (2) INFORMATION FOR SEQ ID NO:820:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 167 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:820:

GAATTCGGCC	TTCATGGCCT	ACTCTTTCCT	TGAAGAATTT	GTTGAAGACT	TCAGAAGTGA	60
TGCTGGCTGC	TTTCTTCATT	AGGTTGAGCT	CCCCATCCTC	CTTTACAGCG	ATGGTATATG	1.20
CCACAACTGC	ACTGATATCT	ATTTTGTCAA	AGCCTTCAGG	TCTCGAG		167

- (2) INFORMATION FOR SEQ ID NO:821:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 733 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:821:

GAATTCGGCC AAAGAGGCCT	AGCGAAATAA	AACAAGGGAG	TCAGCAAAAC	СРСРВИТЕ	60
AGCAATGTCA GCTCATGACA					120
ATCTATCATT GATGAATTTC					180
AGAGCTGAAT GCCCAGGGCC					240
GGAAAGGAGC CAGATCACCA					300
AGAAAAACTC AGCAAACAGG	ACTTTTTCAA	AGGTTTTTCA	GAAACTTTGG	AATTGGCAGA	360
TGACATGGCC ATTGATATTC	CCCATATTTG	GTTGTACCTT	GCTGAACTGG	TGACCCCCAT	420
GTTAAAAGAA GGTGGAATCT	CCATGAGAGA	ACTTACCATA	GAATTTAGCA	AACCTTTACT	480
TCCTGTTGGA AGAGCTGGGG	TCTTGCTATC	TGAAATATTG	CACCTACTAT	GCAAACAAAT	540
GAGCCATAAG AAAGTGGGAG	CCTTATGGAG	GGAGGCTGAC	CTCAGCTGGA	AGGACTTTTT	600
ACCAGAAGGA GAAGATGTAC	ATAATTTTCT	TTTGGAGCAG	AAGTTGGACT	TCATAGAGTC	660
TGACAGTCCC TGTTCCTCTG	AAGCACTTTC	AAAGAAAGAA	CTGTCTGCCG	AAGAGCTGTA	720
TAAGCGACTC GAG					733

- (2) INFORMATION FOR SEQ ID NO:822:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 512 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

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#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:822:

TGCCAGATAG	TTCTGCAGAA	GAAATCACTG	TTTGTCCTGA	GACACAGGTA	AGTTCCTCTG	60
AAACTTTTGA	CCTTGAAAGA	GAAGTCTCTC	CAGGTAGCAG	AGATATCTTG	GATGGAGTCA	120
GAATAATAAT	GGCAGATAAG	GAGGTTGGTA	ACAAGGAAGA	TGCTGAGAAG	GAAGTAGCTA	180
TTTCTACCTT	CTCATCCAGT	AACCAGGTAT	CCTGCCCGCT	ATGTGACCAA	TGCTTTCCAC	240
CCACAAAGAT	TGAACGACAT	GCCATGTACT	GCAATGGTCT	GATGGAGGAA	GATACAGTAT	300
TGACTCGGAG	ACAAAAAGAG	GCCAAGACCA	AGAGTGACAG	TGGGACAGCT	GCCCAGACTT	360
CTCTAGACAT	TGACAAGAAT	GAGAAGTGTT	ACCTCTGTAA	ATCCCTGGTC	CCATTTAGAG	420
AGTATCAGTG	TCATGTGGAC	TCCTGTCTCC	AGCTTGCAAA	GGCTGACCAA	GGAGATGGAC	480
CTGAAGGGAG	TGGAAGAGCA	CGTTCGCTCG	AG			512

## (2) INFORMATION FOR SEQ ID NO:823:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 423 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:823:

GAATTCGGGC	CTTCATGGCC	TACTCTCATC	TGTATCTGTT	TCCTCTAACT	TTACTGAAAA	60
GATAGAATTC	ATTAAGCATG	AATTCTACCA	TCTTCTCCCT	ACTACAGCTC	TGTCAAAAAG	120
ATGTTGCTCT	CTGAGCCCAA	CTCTCCCTCA	GTCCCCAGGA	TTCTGTCCCT	GTCCACCTTT	180
AATCTTTTCC	TTTCCTGATT	TTATGTTATA	AGTTATTTAG	ATTTCGATGA	GAGATAATCG	240
TACCTAGAGT	ATGGGAGAAC	TATTTAAGGT	TTACAGGTTG	GGTGGAACCC	TTGTATATAC	300
TAGATGGTAC	TGTGAGGGCT	TGCCACACTG	TCAGCCTTCA	TCTGAACAGA	GCAGAAAGTG	360
TTTCTGCATG	TTCACCAAGC	CCTGCTGGAC	TGTATCACTT	TTCTCTGTGG	GCCAAAACTC	420
GAG						423

# (2) INFORMATION FOR SEQ ID NO:824:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 353 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double(D) TOPOLOGY: linear
  - (5) 10102001. 111100
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:824:

GAATTCGGCÇ	TTCATGGCCT.	AGCGGCCTCA	GATGAATGCG	GCTGTTAAGA	CCTGCAATAA	60
TCCAGAATGG	CTACTCTGAT	CTATGTTGAT	AAGGAAAATG	GAGAACCAGG	CACCCGTGTG	120
GTTGCTAAGG	ATGGGCTGAA	GCTGGGGTCT	GGACCTTCAA	TCAAAGCCTT	AGATGGGAGA	180
TCTCAAGTTT	CAACACCACG	TTTTGGCAAA	ACGTTCGATG	CCCCACCAGC	CTTACCTAAA	240
GCTACTAGAA	AGGCTTTGGG	AACTGTCAAC	AGAGCTACAG	AAAAGTCTGT	AAAGACCAAG	300
GGACCCCTCA	AACAAAAACA	GCCAAGCTTT	TCTGCCAAAA	AGATGATCTC	GAG	353

### (2) INFORMATION FOR SEQ ID NO:825:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 506 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:825:

	GAATTCGGCC	AAAGAGGCCT	AGGAGTAAGG	ATGCAGAAAT	GATTGCAGCA	TATTTCATTC	60
	TCTACGCAAG	GATGTTCCTC	GGAAATGGAG	GCGACATTGC	TGCCTGCTTT	TTTGAGGGAA	120
	TTGATGATGT	TCACTGGAAG	GAAAATGGGA	CATTAGTTCA	AGTAGCAACT	ATATCAGGAA	180
	ACATGTTCAA	CCAAATGGCA	AAGTGGGTGA	AACAGGACAA	TGAAACAGGA	ATTTATTATG	240
	AGACATGGAA	TGTAAAAGCC	AGCCCAGAAA	AGGGGGCAGA	GACATGGTTT	GATTCCTACG	300
	ACTGTTCCAA	ATTTGTGTTA	AGGACCTTTA	ACAAGTTGGC	TGAATTTGGA	GCAGAGTTCA	360
	AGAACATAGA	AACCAACTAT	ACAAGAATAT	TTCTTTACAG	TGGAGAACCT	ACTTATCTGG	420
,	GAAATGAAAC	ATCTGTTTTT	GGGCCAACAG	GAAACAAGAC	TCTTGGTTTA	GCCATAAAAA	480
	GATTTTATTA	CCCCTTCAAC	CTCGAG				506

- (2) INFORMATION FOR SEQ ID NO:826:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 337 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:826:

GATGGAGCAG TTCCAGAAGG	AGAAGGAGGA	ACTGGACAGG	GGCTGCCGCG	AGTGCAAGCG	60
CAAGGTGGCC GAGTGCCAGA	GGAAACTGAA	GGAGCTGGAG	GTGGCCGAGG	GCGGCAAGGC	120
AGAGCTGGAG CGCCTGCAGG	CCGAGGCACA	GCAGCTGCGC	AAGGAGGAGC	GGAGCTGGGA	180
GCAGAAGCTG GAGGAGATGC	GCAAGAAGGA	GAAGAGCATG	CCCTGGAACG	TGGACACGCT	240
CAGCAAAGAC GGCTTCAGCA	AGAGCATGGT	AAATACCAAG	CCCGAGAAGA	CGGAGGAGGA	300
CTCAGAGGAG GTGAGGGAGC	AGAAACACAA	GCTCGAG			337

- (2) INFORMATION FOR SEQ ID NO:827:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 216 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:827:

GAATTCGGCC AAAGAGGCCT AC	AGGTACAG AATCATATGA	ATGTTTCTTT	CTTTCTTTCT	60
TTTCTTTCCT TCTTTCCTTC TT	TCTTTCTT TCTTTTTTG	AGACAGAGTC	TTGTTCTGTT	120
GCCAGACTGG AGTGCAGTGA CT	CAATCTCA GCTCACTGCA	ACCTCCACCT	CCCAGGTTCA	180
AGCAATTGTC CTCCCTCAGC GA	GGACCTGC CTCGAG			216

- (2) INFORMATION FOR SEQ ID NO:828:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 386 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi)	SEOUENCE	DESCRIPTION:	SEQ	ID	NO:828:
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GAATTCGGCC	AAAGAGGCCT	AAAAAAAAGA	AGATGGGTTT	TTTAAGTCCA	ATATATGTTA	60
TTTTCTTCTT	TTTTGGAGTC	AAAGTACATT	GCCAATATGA	AACTTATCAG	TGGGATGAAG	120
ACTATGACCA	AGAGCCAGAT	GATGATTACC	AAACAGGATT	CCCATTTCGT	CAAAATGTAG	180
ACTACGGAGT	TCCTTTTCAT	CAGTATACTT	TAGGCTGTGT	CAGTGAATGC	TTCTGTCCAA	240
CTAACTTTCC	ATCATCAATG	TACTGTGATA	ATCGCAAACT	CAAGACTATC	CCAAATATTC	300
CGATGCACAT	TCAGCAACTC	TACCTTCAGT	TCAATGAAAT	TGAGGCTGTG	ACTGCAAATT	360
CATTCATCAA	TGCAACTCAT	CTCGAG				386

- (2) INFORMATION FOR SEQ ID NO:829:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 293 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:829:

GAATTCGGCC	AAAGAGGCCT	AGCTGAATCC	TAGATTTCAG	CTTCTCACTC	AGAATTTAAG	60
CTGTTTTCAG	TACCAGAAAT	ATTTAAGACT	GTTAGTTTAA	CTTCTAAGAA	TAGCAGATAA	120
AGCGTATAGG	TGTTTTGAGA	TAACCGTATT	CATAGGAAAA	ACAAACATAA	AACTTTCATA	180
ATTTTGGGAA	GAGTTACACA	CAAAAATATC	ATCATTGAAT	AATTAGTACA	ACAAAAATGC	240
ATTTGTTTGT	CCTAAAGGTT	GAAATGAACA	GAATCATGAT	GGGAATACTC	GAG	293

- (2) INFORMATION FOR SEQ ID NO:830:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 146 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:830:

GAATTCGGCC	AAAGAGGCCT	AATTGAATTC	TAGACCTGCC	TATGTCCTAT	TCCCTGTGTC	60
CTGCAAGACC	CCCTTTGGTT	TGGTTTTCTT	TTCTTTTCTT	TTTTTTTTT	TTGAGACTGC	120
GTCTTGCTCT	GTCTCCCAGG	CTCGAG				146

- (2) INFORMATION FOR SEQ ID NO:831:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 158 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:831:

GCGATTGAAT	TCTAGACCTG	CCTCTCATCC	ACTATTGTCT	TTCCCCAATT	TTTTTCTAGC	60
CTTATCTTCC	AGAATTCCTC	TCAGACATAG	GTGGCCCTGG	TTGCTTGATC	CTGTCTCTAA	120

158

(2) INFORMATION FOR SEQ ID NO:832:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 317 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:832:	
GAATTCGGCC TTCATGGCCT AGCTGATTTA AATCTAAAAA CTGGATAAGA AGCTGTGGCT TGTAATTAAA AATAGACCTT TATTCACTAG ACCTACAGTT TGCTTTTTTC ATATGTTAAG AAAAGTTTAA TATCCTGCT. CTCTATTTCA GTTCTAGGGG CACCACTATC AGTTAACCCT AAAGATTTCT GTGGGTGAAA CCATTTTGAT TACCATCTTG CTCTGCTGCC AGTTATGGTA ACCAAACTCT CTTTGTTCT GGATGCTAAA TCTGTCCACT TGTGCCTTAA CTACATCCTA ACTCCCGTCA ACTCGAG	180
(2) INFORMATION FOR SEQ ID NO:833:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 339 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:833:	
GAATTCGGCC TTCATGGCCT AGCCCCCGGA GCCCACCACA GTCCCCAGAG TGTGATAAAA ACAATTTTTA TACTTCTTAT CTCTTTCTAG TAGTCTACAT CCCATTCCCA GTCTTTCCAA TCATAAAAAT TTGTAGTTTA TTTAGTTCAC ACTTGAACGT CCTATGAAAC TGTTTTAAAC CTTTTACCTA TCTTGTTTCT TGTCATTATT CTTAAGCCAT TGATACAGAA ATCAGAACCA AATTTAATAT TGTTGTGGGT ATGAGACAGT TTCTGCATG TTTTACTATG TACTTCATAT ATACCGGGCA CTTCTCGAG  (2) INFORMATION FOR SEQ ID NO:834:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 396 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double	60 120 180 240 300 339
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:834:	
GAATTCGGCC TCATGGCCTA TGACTTTAA GTTTCTTATT ACACTGAGAA ACACCTAACT ATCCTAAATAG AATTAAATTT CCCTAAGTTA TAAGACACTT GAATTTTTAA AAAAGAGATA ATTAAATTTC TCCTATATTT TATTTCATT ATTTTTTCAG TCATGCTCCT TCTGTATCTC TTTTATTTAT TTGTTTATTT TTGGAAACAG AGTTTCCTTA TGCTGCCCAC GCTGGTCCTG AGCTCAAGCA ATCTTCACGC CTCAGCCTCC CAAAATTATA GGACTACAGG CATGAGCCAC TGTGCCTGGC CTAAGCCACT GCACCGGCG CTCGAG	60 120 180 240 300 360 396

GTTGGTCTTT CATGTTTTCT CTCCTCAGAT TGCTCGAG

(2)	INFORMATION	ROB	SEO	TD	NO . R3 5

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 294 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:835:

GAATTCGGCC	TTCATGGCCT	ACTTTTACTC	ATGCATAATT	TTGTAAAATC	CTACATTGGT	60
CATTTGGAAA	ATATTGATTC	ACTGAGTAAT	ACAACTCTTC	CAAATGTTGA	ATGTTTCATT	120
CTACAATATC	AGAAACTCAA	TTTGTTAATG	TTACTACTAG	TCTCATCAGA	AATGTCTTTA	180
AGTATTTGTT	AACTGGCAAA	CTCATAGTGA	CGACTACAGG	CTTTCCAGAA	TTTTCATTTT	240
CATTTGAAGT	CTGAATTTTA	TCAACTATAA	ATACTGTCAG	TTGTTTCCCT	CGAG	294

- (2) INFORMATION FOR SEQ ID NO:836:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 352 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:836:

GAATTCGGCC	TTCATGGCCT	ACTCTGATAC	TAACTGTAGT	CTACATTTAT	ACATTGTGTC	60
TGAATGCTGG	TTTTGTGGCT	TCACTAGCTC	CCTTTTTCTC	TCTCCTTTTT	TATCCTGTCT	120
TTTGCTGCTG	CTTTCCACCT	TCTGTCCAGC	TCCATCTTCA	GACAGCTCCC	TGTATAACGC	180
TCCACTTCCT	GAGTATTCCA	GTTGCCAGCC	TCCTTCAGCA	CCTCCTCCAT	CATACGCTAA	240
AGTCATCTCA	GCTCCAGTGT	CAGATGCCAC	TCCTGATTAT	GCTGTAGTGA	CTGCTTTGCC	300
ACCTACTTCC	ACACCCCCTA	CACCACCACT	GCGACACCCA	GCGACACTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:837:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 355 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:837:

GAATTCGGCC	TTCATGGCCT	ACCGGACCTT	GAAAATGGAA	TGTTCAGAAA	CACATGTGCA	60
AGGGAGCTGT	GCCAAGCTCA	TGTTGCGAAC	AGGCCTCCTG	ATGAAGCTTC	TCAGCGAGCA	120
GCAGGAAGCA	AAGGCATTGA	ATGTAGAATG	GGATACGGAC	CAACAAAAAA	CAAATTATAT	180
TAATGAGAAC	ATGGAACAGA	ATGAACAGAA	AGAGCAGAAG	TCAAGTGAGC	TCATGAAAGA	240
AGTTCCAGGA	GATGACTATA	AGAACAAACT	CATCTTCGCA	ATATCTGTGA	CTGTAATACT	300
AATAATTTTG	ATTATAATTT	TTTGTCTTAT	AGAGGTGAAT	TCACATATGC	TCGAG	355

- (2) INFORMATION FOR SEQ ID NO:838:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 540 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:838:

GAATTCGGCC TTCATGG	ССТ ААААААТСТА G	TTGAGAAAA A	AGAAAGAAAC	CAAGAAGGCT	60
AATCACAAGG GTTCTGA	aaa taaaactgat t	TAGATAATT (	CTATAGGAAT	TAAAAAAATG	120
AAAACCTCAT GTAAATT	TAA GATAGATTCA A	ACATAAGTC (	CGAAGAAGGA	TAGCAAAGAA	180
TTTACACAAA AAAATAA	GAA AGAGAAAAAA A	ACATTGTTC A	AACATACTAC	AGACTCTTCT	240
CTCGAAGAAA AACAAAG	GAC ATTAGACTCA G	GCACCTCTG I	AAATTGTGAA	ATCTCCCAGA	300
ATCGAGTGTT CTAAGAC	AAG AAGAGAAATG C	CAATCAGTGG :	TTCAACTCAT	AATGACAAGA	360
GACAGTGATG GTTATGA	aaa ctcaacagat g	GTGAAATGT (	GTGACAAAGA	TGCTCTGGAG	420
GAAGATTCAG AAAGCGT	rag tgaaatagga a	GTGATGAGG A	AATCTGAAAA	TGAAATTACA	480
AGTGTTGGTA GAGCTTC	AGG TGATGACGAT G	GAAGTGAAG	ATGATGAAGA	GAAGCTCGAG	540

- (2) INFORMATION FOR SEQ ID NO:839:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 539 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:839:

GAATTCGGCC	TTCATGGCCT	AGCATTTCAT	CTCTAAATTG	GGGAGAATAG	AAGCATCTAC	60
TTCATGTAGT	AGCCAGGATT	AGAAGAGGGA	GGAATAACTG	GGCCCTGGAT	AGAATGTGAT	120
GAATGTATAT	TCTTAATGAG	AAGTGGAAAT	AATTTGTGGT	TGAGAGCTGT	GCCTCAGATC	180
AGAGTGACAG	GATACATGGC	TAGGCTATAT	TTTCCAGCAG	ATTAAGAGCT	GCAGCCCAAG	240
ACTCTGAAAT	ATGAAGAAAA	AAGGAGAAGA	TGACAGCATA	TCTTTTTAAA	GAAATATTTT	300
CCAGCCAAAT	GGTGCAGCAG	AGGACTTCCA	GGAATTTGTT	CTTGTTCTGT	ATCAAAGGTG	360
AAGAGTTCGT	AGCCTTCAAG	GAAACAAGAA	ACCATGGGAT	GGAGTGAAGG	AAGGTGGCCT	420
GGAACCAGCT	GCTGAGCCTC	TCTGAGCCCC	AGTTTCCTCG	TCTCTAAAAT	GGGGCTGATC	480
TCCTCTCCCT	CAGACTGTTG	TTGCAGGAAT	TAAAACAGGT	GTTGAGTGGG	CTGCTCGAG	539

- (2) INFORMATION FOR SEQ ID NO:840:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 297 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:840:

60	CTCCATGAAG	AAGGATTTTG	TGGAGAACAA	GTAACCCATG	CTGATATTCA	TTCCACAGCT
120	TAAATGAAAG	CTGCATGCAT	AGATGAAGCA	ATAAATAAAT	TGCTGAATAA	TCTAATTGCC
180	GCTGGCAGGT	GCTGAAGTGT	TGGGGTGCTG	ATATGTTTGC	CCCTGCCACC	TAAATATTGA
240	AAAAAGGCGC	CAGGAATATC	GCAGGAGAGA	AGCCCAGCAA	AGAGTCTGCC	CCAATCAGTC
29 <b>7</b>	CCTCGAG	CCACCACAGG	CCCAATTCCT	TTGTCCAACC	GCCTTAATCT	TCCTGCTTGT

- (2) INFORMATION FOR SEQ ID NO:841:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 366 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:841:

GAATTCGGCC	TTCATGGCCT	ACCTTATTAG	TGATTGGCGA	TTCAGGCCAT	GTCATAGGGC	60
CTTTCAGACA	AAAGGTTCTT	ATCCCAGTCA	GCTGGCCAAA	ACATTAACTT	TGGATTTCTT	120
ACCCTGCTAC	AGCATCTTCT	AGAAAGGCAG	CAAGATAATA	TTGTGGCAGT	GCACAGATAA	180
CATCAGGGTA	GACTTGACTG	GAGAAAACCA	AATTCTGCGC	TTGCTCCTGT	GTGCCCCCAT	240
CCAGCTGTGC	ATGCACACAC	AGGACACCTT	TCTAGTATGA	AGAACTTGCA	TCATGTCTGC	300
CCTCTATTGA	GCACCCCCTT	CTAGAAATAC	TTCCAAGTAT	TAGCATGTGA	ACTGTTGACT	360
CTCGAG						366

- (2) INFORMATION FOR SEQ ID NO:842:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 190 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:842:

GCGATTGAAT TCTA	AGACCTG CCTCGAGCTG	ACTTATGAAT	TCTTTCTGTG	TGATCGTAAA	60
AGTGCAGAGT TTAT	TTGCAAA GAGAATCTTC	ATCTGAATCC	TCAGCCTGGG	AATCTTCCTC	120
TTCCACCGCC AACT	rcctcca cccagtctga	GTCTACTTCA	ATGGCCCGCT	CTTCCCCATC	180
CGCACTCGAG					190

- (2) INFORMATION FOR SEQ ID NO:843:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 627 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:843:

GAATTCGGGC	TTCATGGCCT	AAGCTCCGCG	AGCCCCCTAC	AACTCGTTTC	CTTCCGTTCA	60
CCTTCGCAGG	GCGGCGACTG	GCGGCGCGAT	GGACCTGACC	GGGCTCCTGC	TGGACGAAGA	120
AGGCACCTTC	TCCCTCGCCG	GCTTCCAGGA	CTTCACGTTC	CTCCCAGGAC	ACCAGAAGCT	180
GAGTGCCCGG	ATCCGAAGGA	GGCTCTACTA	TGGCTGGGAT	TGGGAAGCCG	ACTGTAGCCT	240
GGAGGAGCTC	TCCAGCCCGG	TGGCAGACAT	TGCTGTCGAA	CTGCTCCAGA	AGGCAGCCCC	300
CAGCCCTATT	CGCCGACTCC	AGAAGAAATA	CGTAGCTCAT	GTGTCCCGGG	AGGCATGCAT	360
CTCCCCATGT	GCTATGATGC	TGGCTCTGGT	GTACATTGAA	CGGCTCCGGC	ACCGAAACCC	420
AGACTACTTG	CAGCATGTGT	CATCCTCTGA	CTTGTTCCTG	ATCTCCATGA	TGGTGGCCAG	480
TAAGTACCTC	TATGATGAAG	GGGAGGAGGA	GGAGGTCTTC	AACGACGAAT	GGGGAGCTGC	540
TGGGGGTGTG	GCCGTGCCCA	CTCTCAATGC	CTTGGAGAGG	GGCTTCCTGA	GTGCCATGGA	600

627

TTGGCATCTC TACACTGAAC GCTCGAG

(2) INFORMATION FOR SEC ID NO.844.

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:844: GAATTCGGCC TTCATGGCCT ACCTGAGCTG CCGAAGCCGC CGTCCTGCTC TCCCGCGTGG GCTTCTCTAA TTCCATTGTT TTTTTTAGAT TCTCTCGGGC CTAGCCGTCC TTGGAACCCG 120 ATATTCGGGC TGGGCGGTTC CGCGGCCTGG GCCTAGGGGC TTAACAGTAG CAACAGAAGC 180 GGCGGCGGCG GCAGCAGCAG CAGCAGCAAT CTCTTCCCGA ACACGAGCAC CACAGGCGCC 240 CGAAGGCCGG AACAGGCGTT TAGAGAAAAT GGCAGACGAT ATTGATATTG AAGCTCTAGC 300 305 (2) INFORMATION FOR SEQ ID NO:845: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 409 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:845: GAATTCGGCC TTCATGGCCT ACCAGAAAAA ACTTACATTG AAGAGAGGAT TCCTTGTTTT GACTATGTGT GTTTCTGCCG TCTTAGGCAG CCAACGTATT GGTTTACATG GATCTGGAGG 120 ATTATGCACA CTAGTGTTGA GTTTCATTGC AGGGACAAAA TGGTCCCAAG AAAAGATGAA 180 AGTCCAAAAG ATTATTACGA CTGTATGGGA TATTTTTCAA CCACTTCTTT TTGGTTTAGT 240 TGGAGCAGAA GTATCTGTTT CATCGCTTGA ATCAAATATT GTTGGCATAT CTGTTGCCAC 300 TCTAAGTTTG GCATTATGTG TTCGAATTTT AACCACATAT CTATTGATGT GCTTTGCTGG 360 TTTTAGTTTT AAGGAGAAAA TATTTATTGC TTTAGCATGC ATGCTCGAG 409 (2) INFORMATION FOR SEQ ID NO:846: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 370 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:846: GAATTCGGCC TTCATGGCCT AGGCACGGTA CATACGATTA TTATAAACAT CAGCTGCGGT 60 TCTGGGAGTG AGCTTGTGTC GTGTTAGTGC CATCTCCCTG ACAAATCTGA CCTGTACCCA 120 CATCTCAGGC TGGGAAGGAG TAGCTGGGCC TCCCTTTAAT GCAGCGGCAC TGGTTTGGGT 180 CACAAGAGCT GGTTTGATCA ACCCCTGACT CCCCCTGGCG GGAGGTGCTC GTCACATCTG 240 GGAGCCTGAG CAGAGGTGCC GGGGGCTTGG AAGCTGGAGA AATGATGGAT CTTTCTCCAG 300 GAGAAACAAT TCTTATCTTC ACATCNGCCC CGTGCTCCAA ATGAAGAGCG CGTTTGCATA 360

GCT	GCTCGAG	370
(2)	INFORMATION FOR SEQ ID NO:847:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 504 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:847:	
GGCT ACAC CACA CCTT TATT CAAC GAAC	TCGGCC TTCATGGCCT ACGCGCGCC GAGCGGAGC GGAGTCGGCG CCGAGAACAT GGAGGC AAAGCTGGAA AGGACAGTGG GAAGGCCAAG GCTAAGGCAG TATCTCGCTC AGAGCT GGGCTACAGT TCCTGTGGG CCGCATCCAC AGACACTTGA AGACTCGCAC AGCCAT GGAAGGGTGG GTGCCACTGC TGCCGTGTAC AGGTCTCCACA AGGTAAAGCG ACTCCG CGTCACTTC AGCTGCAAG TAATGCTTCT AAGGATCTCA AAGTAAAGCG ACTCCG CGTCACTTC AGCTTGCAAT CCGTGGTAT TGAAGAGTTGG ATTCTCTTAT ACTGCACA CAGAAAACTG CTTAAGAGGA TGCTTTAACC AACCTCTTCC TTCCCCGTCA ACTGTA ACTGGGACCT CGAG	60 120 180 240 300 360 420 480 504
(2)	INFORMATION FOR SEQ ID NO:848:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 436 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:848:	
TTAG TGCT GTTT TCAA AAAT TATG	TCGGCC TTCATGGCCT AAACAAGCAG AGGGACTCCC CAGATAGCTT CATACCCAGT CTTTAT AACAAGTGTA GTTTTAGGCT CTGTCTTGGC ATACTTGAGA GCACAATGGC TCAAAA CAGGCATAT ACACTTAACC CTTGAACAAT TCTTCTTTAA TCTAAAGTGA CTCCCCCT GTGAAGTAAA AATTTGCTAA TAACTTTTGA CTCCCCCAGA ACTTAACTAT AGCCTA CTATTGATTG GAAGTGTTAC CAACAGCATA CACAGTTAAC ATATATTTG TAATAT GTGTTATCCA CTATATCTT ACAATAAAGT TAGCAAAAGA AAAAAAATGTT GGAATC CTCGAG	60 120 180 240 300 360 420 436
(2)	INFORMATION FOR SEQ ID NO:849:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 502 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:849:	
	ICGGCC TTCATGGCCT ACATGAGCCC AGGAGTTGAA GGCTATAGCC TGGGTGACAC AGGCCC CATCTCTAAA AAATATATAA ATAAATAAAG TTAAGGATGC TGCGTGGTTT	60 120

ATATGTTCAG	AAAGAGATTG	AGGTAATAAA	AGAGTTTTTG	GCCAGGCTCT	GGCTTACACC	180
TCGGCCTCCC	AGAGTGCTGG	GATTACAGGC	ATGAGCCACC	GCGCCCAGCC	GGAAGTAGGT	240
TTTTTGAAGA	GTCAGCTGAA	AACAACTGTT	GCCGTATTCG	${\tt GAATTTAAAA}$	TTTTAATTTG	300
TATTATAAAA	AACTGAGAAA	TTATTGTATA	TATTTATGGT	ATACAGCGTG	ATGTTATGAT	360
ACATGTATAC	AATGCAGAAT	GATTAAATCA	AGCTATTTAA	CATAGCTGTC	ACCTCAAATA	420
CTATTTTTGT	GGTCAGAAAT	TTGAAATTTA	TTATCTCAGG	AATTTTGAAA	TGTACAATAC	480
ATTATTATTA	ACTGTTCTCG	AG				502

- (2) INFORMATION FOR SEQ ID NO:850:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 291 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:850:

GAATTCGGCC	TTCATGGCCT	AGATAAAAAG	AAACAAAAAA	GAGAAGATAT	GATAAGAGAA	60
CAGAAGATAT	ACCATAAATA	TTTGGCACAG	AGACGTGAGG	AAGAAAAAGC	TCAGGAGAAA	120
GAATTTGACA	GAATATTAGA	GGAAGACAAG	GCAAAGAAGT	TGGCTGAGAA	GGACAAGGAG	180
CTGAGACTTG	AAAAGGAGGC	AAGGAGACAG	CTTGTGGATG	AGGTCATGTG	TACAAGAAAA	240
CTTCAAGTTC	AAGAAAAGTT	GCAACGAGAA	GCTAAAGAAC	AGGAACTCGA	G	291

- (2) INFORMATION FOR SEQ ID NO:851:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 311 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:851:

GGTTCTGTAT	TCTGTTGGTT	GGAGTGTTCT	ACTATTGTTG	GGTGGAGTGT	TCTATCTTCT	60
GTTGGGTGGA	GTGTTCTGCT	GTTGTTGGGT	GGCGTGTTGT	ATATTCTGTT	GTTGGGTGGC	120
GTGTTGTATA	TTCTGTTGTT	GGGTGGCGTG	TTCTATCTTC	TGTTGTTGGG	TGGATGGATT	180
GTTCTGTATT	CTGTTGGGTG	GCATGTTCTA	TCTTCTGTTT	TTGGGTGGAG	CGTTCTATCT	240
TCTGTTGGGT	GGCGCATTCT	ATATTCTGTT	GTTGGGTGGC	GTGTTCTGTA	TTCTGTTGTG	300
GGTGGCTCGA	G .					311

- (2) INFORMATION FOR SEQ ID NO:852:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 532 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:852:

GAATTCGGCC CTTCATGGCC TAGTCTCATC TCAGAGTACT CAGAGAAACT ATTTTTTAAT

CTCTAGATAT CAATCAATGA ATATTTATTA TTAAATACCT GCTATGTGCC AGATGGTGTT

120

AATTATAAGT	TTGTTCTCTT	TTTGTCGTGC	TACTTAGGCT	TTTATCATTT	TGTCCTATCA	180
TTAGGGAAGT	GGCTCCNNNN	CTTACAGCTA	ATTTTTTTT	CAATTTACTA	ATGACTTTTT	240
GTGGAGGTGG	GGATCTCTTC	TGTTCAACAT	TTTCTATGAT	TCATCTCAAT	CCTCCAGTGA	300
TTATTAAAAA	ACAGTTGCAG	TAAGTTCAGT	CATAGGGGCA	CTGGAATGAG	TCCTTAAAAC	360
TTTATGCTGC	TGCTTTTGCA	ATGATGGATT	GCCTGAGAAT	TAAGGAAAGA	TAACTACTCT	420
CTTGGTCACT	GTATTTCCAA	TCAACCATAT	CCTCCCAGAA	TATGATTTCT	TCCCTCAGGC	480
ATTTTAGAAA	AGAGACAAGA	GACAGATTTT	TTTTTTCAGG	CAATGACTCG	AG	532

- (2) INFORMATION FOR SEQ ID NO:853:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 415 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:853:

GAATTCGGCC	TTCATGGCCT	ACTITITGAT	AAGCAACTAG	TGGTCTCATT	ATCAGAGGTC	60
CCTGAGGGGC	CCTACAGGCC	CCCCCAGGTT	CTGCCCCCAA	GATTCTAAGA	GAGACCTTGT	120
GCTAGGGCTC	TAGTCTTGAT	GTTCTTTGCA	TTGTTTGGAT	ATGAAGCCCA	GGATATGTGG	180
GCACAATAAG	GTAAATCATG	AGATGTGAAG	GAGAATGAAG	ATCAGGCCAG	AGGTCACCAT	240
TCATTGAAGA	GCCAGAGAAA	AAGAAAATTA	GTGCACAGAT	TTGTGTAGAT	TTACAGAGAA	300
CTTCTATTTG	CTGCAAGAAC	TTCATCAGGC	GCTGCACCAT	GCCTGATTTG	GAAAGGAGCT	360
TCTTTGGGGC	CTGATAGAAC	TGAATTAATA	TGAAGAAATT	GAAGTGGCTC	TCGAG	415

- (2) INFORMATION FOR SEQ ID NO:854:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 324 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:854:

GAATTCGGCC	TTCATGGCCT	AGTAAAATTA	GCTGAAAAAT	AATTTTCCAA	TGCAAATACT	60
AATGAGGGTT	ATATGACCGT	TGTCCAAAGC	ATTTGCAGTG	CTGCATGACA	TTTGTCCTAA	120
AACCTGACTC	TTAAAACATT	CCTTGTGAAA	ATAGAAATAT	TCCCATGCCT	AGATTCCAAA	180
TAATAAAAGA	CACTGAGAGT	GTTTTCAAAA	TTAATGGACT	GATTTAAATT	TCACTGGAAA	240
GCAGCTTTTT	AAAACTAAAT	TGTCTGGATG	TGGCCTCCCT	GTGATCACTT	CCAACTGCTT	300
ACTGCCAACT	TCTGGCGGCT	CGAG		•		324

- (2) INFORMATION FOR SEQ ID NO:855:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 616 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:855:

GAATTCGGCC	TTCATGGCCT	AACGGCCTTC	AGATGGAAGG	AGGGCAGGTG	CATATCTGTT	60
AGCAAAATCT	TCACAATCAT	CTTGAGTTTC	TCAGCAAAGT	CGGCCTGGCT	GGAAATTCCT	120
GGCGCTGCCA	TGCTGAAGGT	GACCAGCAAC	ACAGCCCCCA	${\tt GGATGGTCAG}$	TTGTTCCAGC	180
TGCAACTGGA	GCTCGTGGAA	GCGAGACTGG	TCCATTAAAA	CTGTTTCGGG	GAACGGCCTC	240
TGGAGGTGGT	CCCACTTCAG	AAGCTTCAGG	TAAGCGTAAT	TCTGGACAGC	AACAGGGCTC	300
AGCCTGGGCA	TGTCCCCAGA	GCCAGCAGCC	ATTCCCCCCA	CTGGCAGGGC	GTGTTTATAC	360
TTCTGAGTCA	TAAGGTCCTC	TGAGGCTTCT	TCCAGCCACT	GGGTGACAAA	GTCCAGGGAA	420
TTTGGTTGCC	TCTCCAAAAT	CTCTTGAAAC	TTCTTCCTTT	CGTATTCAAC	TGACTGCTGC	480
ATGAGATGAG	GCCTGATGCT	ACTGATAGCA	AAGTTGGCCA	TGTCCACTTT	CATTAGGTCC	540
AACACAGAAA	AAATTTCTCT	GAAAAGGGGC	ACTATTTCCT	TAATGTCCTT	TAGTTTCTTA	600
ACTTCCTCAT	CTCGAG					616

- (2) INFORMATION FOR SEQ ID NO:856:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 497 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:856:

GCTCTGGGTG	AAAAGATCTC	ACACCAATGT	ACATAATGTG	GCCATCCTTT	CCATTTTCAA	60
GAAGTTGCCT	TGCTTTGATA	CTGCAAATTC	AGTATTTGTA	CACTGGAATG	ATAAAAAGAT	120
GTTCCACTTT	CTTTTCAGCC	AGAAAGCTTC	CTCGTTGTGT	GTGTGCGTGT	GTGTCCCATC	180
CTATTGCCTG	TTCTTTCTAA	ATCTACATTT	TGTTACCTTA	TCCAATACTT	GCTTTAGCAA	240
GAACATTATG	GGGCCCACCA	TATTCCACAG	GGCCATGCCA	ACCTTTGGAA	AAAAGGTAGG	300
TCAAGGAAGA	AATCAGAACA	AACCCTGTGA	CCATTCCACC	TCCTTGCATC	TTGGGCTTGG	360
GTTTGGAAAC	TGACCAGCAA	GCTGGAGCTG	CCACCACAGA	GAAACATCAA	AGCAAAAGGG	420
TTCCAGGACC	AGAGATTAGG	TAACTAGCTA	CAGGCCAGAG	GAATGCTTCC	CTCTCTAGAT	480
CAACAAGCAC	CCTCGAG					497

- (2) INFORMATION FOR SEQ ID NO:857:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 262 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:857:

GTTCATGGCC.	TAGATGCTGG	TTTGTTTTTG	TTTTCGTTTT	TTTGAGACAG	TCTTGCTCTG	60
TGACCCGGGC	TGGAGTGCAG	TGGTGCGATC	TCGCTCATTG	CAACCTCTGC	CTCCCAAGTT	120
CCAGCAAGTC	TCCTGCCTCA	GCCCCCACC	GAGTAGCTGG	GACTACACGC	AAGTGCCACC	180
ACGCCCAGCT	ACTTTTTGTA	TTTTTAGTAG	AGATGGGGTT	TCACCATGTT	GGCCAGGCTG	240
GACTCGAATT	CCTGACCTCG	AG				262

- (2) INFORMATION FOR SEQ ID NO:858:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 441 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:858:

GAAACTATAA TCAT	CAGTAC TGTAATGAGC	AATTATGAGG	CCTACAAGCC	TTCCACAGGA	60
GCTATGGGAG ATCG	ACTAAC GGCAATGAAA	GCAGCTTTCC	AGTCACAGTA	CAAGAGTCAC	120
TTTGTTGCAG CCAG	TTTAAG TAATCAGAAG	GCTGGAAGTT	CTGCTGCTGG	GGCAAGTGGG	180
TGGACTAGTG CAGG	GAGCTT GAATTCTGTT	CCAACTAACT	CAGCACAACA	GGGCCATAAC	240
AGTCCTGACA GCCC	CGTCAC CAGTGCCGCC	AAGGGCATCC	CAGGCTTTGG	CAATACTGGC	300
AACATCAGTG GTGC	CCCTGT GACCTACCCG	TCTGCCGGAG	CCCAAGGAGT	CAACAACACA	360
GCTTCAGGGA ATAA	CAGCCG AGAAGGGACT	GGGGGCAGCA	ACGGGAAAAG	AGAGAGATAT	420
ACTGAGAACC GGGA	ACTCGA G				441

- (2) INFORMATION FOR SEQ ID NO:859:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 384 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:859:

GAATTCGGCC TTCATGGC	T ACTGGTCGCC	AATGTGCTGC	AGGTCATGGC	TCCGGAATCA	60
AATTGGGCTC AAACGGGGG	A AGCTCCAACA	CAGTGGAGCC	TGGCGCTACT	CCCACCTCCA	120
CCTTGCGGAT CTCAGAGCT	CAGGATGGCT	CTGCCCACCG	CACCCTGAGC	TGGCCCCGCT	180
TGGGGCTGGC ATTGGGGGA	AC AGTGTGTTCT	GGGCGTCTCT	GCTCCTCTCT	GCTGGTGCCT	240
GTGCCTCTGC TGGCCGCCC	CA CTCATAGATG	TCAGAGCCAC	AGGACGGCCC	CGCAGAATCC	300
CTGCGCCGAC CCTGCCGGC	G GCTGGCTTTG	GTGCACATGC	AACTCGTCAT	CGTGGTCCCC	360
ATGGGCACCT CTGCTCTTC	T CGAG				384

- (2) INFORMATION FOR SEQ ID NO:860:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 421 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:860:

GAATTCGGCC	TTCATGCCTA	CGTTTCCCGA	GAAACCAAGC	CACAAAAAGT	ACAGGGCCGC	60
CCTGAAGAAG	GAGAAACGAA	AGAAACGTCG	GCAGGAACTT	GCTCGACTGA	GAGACTCAGG	120
ACTCTCACAG	AAGGAGGAAG	AGGAGGACAC	TTTTATTGAA	GAACAACAAC	TAGAAGAAGA	180
GAAGCTATTG	GAAAGAGAGA	GGCAAAGATT	ACATGAGGAG	TGGTTGCTAA	GAGAGCAGAA	240
GGCACAAGAA	GAATTCAGAA	TAAAGAAGGA	AAAGGAAGAG	GCGGCTAAAA	AAACGGCAAG	300
AAGAACAAGA	GAGAAAGTTA	AAGGAACAAT	GGGAAGAACA	GCAGAGGAAA	GAGAGAGAAG	360
AGGAGGAGCA	GAAACGACAG	GAGAAGAAAG	AAAAAGAGGA	AGCTTTGCAG	AAGGGCTCGA	420
G						421

- (2) INFORMATION FOR SEQ ID NO:861:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 271 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
  (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:861:

GGATTTCTTT	GGAATGGGCA	AAGAAGTGGG	GAATCTGCTA	CTGGAAAACT	CACAGCTTCT	60
GGAAACCAAA	AACGCCTTGA	ATGTGGTGAA	GAATGACCTG	ATTGCCAAGG	TCGACCAGCT	120
GTCCGGGGAG	CAGGAGGTGC	TGAGGGGCGA	GTTGGAGGCT	GCTAAGCAGG	CCAAAGTCAA	180
GCTGGAAAAC	CGTATCAAGG	AGCTGGAAGA	GGAACTGAAA	AGAGTGAAGT	CCGAGGCCAT	240
CATCGCCCGC	CGTGAACCCA	AAGTTCTCGA	G			271

- (2) INFORMATION FOR SEQ ID NO:862:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 288 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:862:

GCGGCTCTTT	GGGAGGTGGT	CAGGGGAAAA	GATGGTCAGT	GCTTTTTCTG	GACAAATCCA	60
GGGGCCAATT	GAGGTGGGGA	GTCTATGAGA	AGGGCCCTGT	CAGCTGAGGC	GAGGGAAAGG	120
GCAGAGGACC	TAGAATAAAA	GGATATGGCC	TCTCTGTGCA	CTAGCAGGAT	GGGTAGGAAA	180
GGGAGATATG	AAAAGACGAA	ATGGGGACCG	GGTGCGGTGG	CTCACGCCTG	CAATCCCAGC	240
ACTCTGGGAG	GCCAAGGCAG	GCAGATCACC	CGAAGTCAGG	AGCTCGAG		288

- (2) INFORMATION FOR SEQ ID NO:863:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 326 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:863:

GCTCGAGTGG	AATGGGCCGA	GGAGATGGAT	TTGATTCTCG	TGGCAAACGT	GAATTTGATA	60
GGCATAGTGG	AAGTGATAGA	TCTTCTTTTT	CACATTACAG	TGGCCTGAAG	CACGAGGACA	120
AACGTGGAGG	TAGCGGATCT	CACAACTGGG	GAACTGTCAA	AGACGAATTA	ACAGAGTCCC	180
CCAAATACAT	TCAGAAACAA	ATATCTTATA	ATTACAGTGA	CTTGGATCAA	TCAAATGTGA	240
CTGAGGAAAC	ACCTGAAGGT	GAAGAACATC	ATCCAGTGGC	AGACACTGAA	AATAAGGAGA	300
ATGAAGTTGA	AGAGGCTCTT	CTCGAG				326

- (2) INFORMATION FOR SEQ ID NO:864:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 546 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:864:

GGAATGGGGA	GAGGGATCTA	CCAAGGTNAC	AGCAGTTTTT	TGAGCAGCTG	GCACGTGCCT	60
CTGCTGCCAA	CATGATGAGG	TACAGAACCC	AGCACAGGGA	ATGCTCAGCC	TGTGACTGTG	120
AGCTGGATGT	GAGAGTCTCC	TGAGGACCCT	CGGTATACTC	AGAGCATTTC	CTCTCAGGGT	180
GCAGGAAGAG	GAAAGCAGAG	GAAGTGGACT	TGAAGGACCA	AAGGTGGGAT	CCTAGCTGGG	240
CCAATCACTG	AGAAGCCATG	TGGTCTTGGG	CAAGTCATTC	CCTTCTCTGA	GCCTCAGTTT	300
CCCCATCTGT	AAAATGGAGG	TAATGATACT	ATGCCTACCT	CATCATCATG	CTGTGAAGAT	360
TAAATGAGTT	ATGCCATGGA	AGTGCTGTAC	ATTACCCATT	GATAATGTCT	CAGTGGCCTC	420
TCAATGAAAT	GGAGTGTGAC	AGAGTGCCAC	ACTCTGAAAC	GGCTCATCCC	CGGTGATGGT	480
GCTGGGACTA	GAACCCGGGC	AACCTCGCAG	TGCCATGCCC	TACTGCATCA	CTACGTCCAC	540
CTCGAG						546

## (2) INFORMATION FOR SEQ ID NO:865:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 808 base pairs
  - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:865:

GAATTCGGCC	AAAGAGGCCT	AAGGATTCAT	AGTATAAATC	TTTAATTTAT	CACAGTCTGT	60
ATTAAGTAAT	ACTAAACCAC	TTCGCATATA	AATACATCAC	AACAGTATAC	TTCCGTTTAT	120
GCTATCTTGG	TCTTTGTACT	TTTGTTTTTG	TACATTTTAC	TTTGGCATAA	ATGTCAAAGT	180
ACAGTATTGT	TATTTAGCTT	TAAATATTCA	TTTGCCTCTC	TCCTTAATGT	AAAAAGGCTT	240
CTTCTCAACT	TCCTGACATT	TCTTGCTAAA	CTATACACGT	CTGCCCTGTT	TTCCAACAGC	300
ACACTGTTCT	GTACTGTCCC	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTGG	AGACGAGCTC	360
GTTCTTTGCC	CAGGCCGGAC	TGCAGTGGTG	CTATTTCGGC	TCACTGCAAA	CTCTGCTTCC	420
CGGGTTCACG	CCATTTTCCG	GCTTCAGCTT	CCCGAGTAGC	TGGGACTACA	GGCGCCCGCC	480
ACCACGCCCG	GCTAATTTTT	TGTATTTTTA	GTAGAGATGG	GGTTTCTCCG	TGTTAGCCAG	540
GATGGTCTTG	ATCTCCTGAC	CTCGTGATCC	GCCCACCTCG	GCCTCCCAAA	GTGCTGGGAT	600
TACAGGCGTG	AGCCACCGCA	CCTGGCCTAT	TCTGTCCCTT	TTTAAAGCAG	TTCTCTTTTA	660
AAAAATTGTG	GTAAGATATA	AATCACATAA	AATTTGCAGT	TATAACCATT	TTAAAGTATA	720
TAATTCCATG	GCATTAATTA	CAGTCACAGT	CTTTTACAAC	TATTATTACT	ATGTATTCCT	780
AAAGTTTTTT	TACCCTCCCC	CCCTCGAG				808

- (2) INFORMATION FOR SEQ ID NO:866:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 361 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:866:

GAATTCGGCC	TTCATGGCCT	AAAAGAAAAT	GGCTTCAGTA	AGTTAGGATG	AAAAATGAAA	60
ATAAAATA	AAGAAGAAAA	TCTCGGGGAG	AAAAAATTT	ATGCCTCAAT	TTGGCAATCT	120
ACCTCCTCTC	CCCACCCCAA	ACTAAAAAAA	GAAAAAAAGG	TTTTCTAATG	AAAATCTTTA	180
AAAATACTGT	CAGTATTTTA	AAATTTTCAA	CAGTATTATA	AAAACATTGC	ATCTCCCCAC	240
CTCTAATATG	CATATATATT	TTTCCTGCTA	AAATTGGTTT	CTACAATTGA	GTAAATGGCA	300
AATACATGAA	GCAATGTCCC	TAAATTTTAT	AAAGAAATTA	TATTTAATGC	ACATTCTCGA	360
G						361

- (2) INFORMATION FOR SEQ ID NO:867:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 880 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:867:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGAAAA	60
		ATGCCACAAT			AGTTTCCCAA	120
CTCTCAGTAT	ATAGAGACTC	AATTAGAAAA	GAAATGGTGC	TAGTAGCTTC	AACCCACTGG	180
TATGTATTTG	AGGAACTGTT	CCTGGTAGAA	GGCAGTACCG	TGTCCCTTGG	TATTGCTACT	240
GTGCCTGCTA	TGTTACTTCT	TTATGTATAT	GATATGGAAG	TAACTCCTTT	TATACATGTG	300
	ACAGCTTTTT		TTGCATTAAA		AGGCTGGGTG	360
		CCCAGCACTT				420
		CTGACCAATA				480
		GCGCACACCT		CTCCCGCCGG	GCGACTCGAC	540
		CCTCGAAGCC		CACGAGGGGT	ATTTTTTTT	600
		TNGAGTGTAT		GGGTTTCTGT	CTTGAGTGTA	660
GGCCTGGAGA		ATGGTACAAA		ATTAAGAGGT	CTCTTTTCTC	720
CAAGATCTAG	TGTTTTGTAC	TAGGAGAACT	CTAAAAAGTA	TCTATTTCAC	TGTAGTGCCA	780
AAGTACAAAT	TTATTTGGAT	TTATTTTTTG	CCATCTTATT	TTTTAATATA	TTTCTTTTTC	840
TATGTTGTGC	TTCTTTCCCA	CCTCATCTCT	CCTCCTCGAG			880

- (2) INFORMATION FOR SEQ ID NO:868:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 366 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:868:

GAATTCGGCC	TTCATGGCCT	AGTCATGGCT	TTAGAATCTG	GAGAAGAGTC	TGACTCACTT	60
		GGGTTTCACA				120
CTCTGCCCCA	GGGGAGTCCG	AGCCACAGTT	TTCTGATCAA	CTGATGATTC	TGACCCGCTT	180
		ACACTTGTTG				240
		CAAAGCTTTC				300
CCTCTAGATG	GCGTTCTAGG	TATATCTTTC	ATTCCAGGAG	AGGACCCAGA	CAGGCTGTGC	360
CTCGAG	•					366

- (2) INFORMATION FOR SEQ ID NO:869:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 529 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:869:

GAATTCGGCC	TTCATGCCTA	GAGGATCTTC	TCCTGACCCA	GCATCGCTCA	TCACAATGAA	60
GAACCAAGAC	AAAAAGAACG	GGGCTGCCAA	ACAATCCAAT	CCAAAAAGCA	GCCCAGGACA	120
ACCGGAAGCA	GGACCCGAGG	GAGCCCAGGA	GCGGCCCAGC	CAGGCGGCTC	CTGCAGTAGA	180
AGCAGAAGGT	CCCGGCAGCA	GCCAGGCTCC	TCGGAAGCCG	GAGGGGGCTC	AAGCCAGAAC	240
GGCTCAGTCT	GGGGCCCTTC	GTGATGTCTC	TGAGGAGCTG	AGCCGCCAAC	TGGAAGACAT	300
ACTGAGCACA	TACTGTGTGG	ACAATAACCA	GGGGGGCCCC	GGCGAGGATG	GGGCACAGGG	360
TGAGCCGGCT	GAACCCGAAG	ATGCAGAGAA	GTCCCGGACC	TATGTGGCAA	GGAATGGGGA	420
GCCTGAACCA	ACTCCAGTAG	TCAATGGAGA	GAAGGAACCC	TCCAAGGGGG	ATCCAAACAC	480
AGAAGAGATC	CGGCAGAGTG	ACGAGGTCGG	AGACCGAGAA	GCCCTCGAG		529

- (2) INFORMATION FOR SEQ ID NO:870:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 372 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:870:

GAATTCGGCC	TTCATGGCCT	AATTTGAGCT	TCAAGTCTCC	ATGTGTATAA	TGTGGGGTTG	60
ATGCTGTGGT	GCTCCAAGGT	GTTGGGGGGT	TTTAGGCAGA	GTTCTTATGC	TTAATATAGG	120
ATGGAAAAGT	GTTCGAGCTT	CTTCCCTTTT	CTCTTTCTTC	TCTTCATCTG	ACATGAGCCT	180
GGGGTTCTAC	CTCTTCCAGA	TAATTCATCC	TGGAGCTACT	AATTCTATCT	CCCCATTGAT	240
TTTAGTGTCC	TGTCTGTTTC	TAAATCTACT	GGGCAGTTGG	AGACATTGTC	TTTTGTTCCC	300
TCATCTATCT	TCTGTATCCA	CAGTTGATAA	TTGTCTATGT	TTTTAGTGTG	TTTTAAGGAA	360
ACTAGTCTCG	AG					372

- (2) INFORMATION FOR SEQ ID NO:871:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 574 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:871:

GAATTCGGCC TI	CATGGCCT AGGTG	TGGG TGCCTGTAC	T CCCAGCTACT	TGGGAGGCTG	60
AGGCAGAAGA AT	TTGCTTGAA CCCGG	CAGGC AGAGGTTG	CA GTGAGCTGAG	ATCGTGCCAC	120
TGCACTCCAG CC	CTGGGTGAC AAGAG	GAGA CTCTGTCTC	CA AAGAAAAGAA	ACAAAAAATT	180
ATGTACACAA AT	TATGGACAG CACTGO	CAAG AAGTGTGG	CA AAAACACATG	TGGTTCTCTT	240
GTTTTGGGCT CA	AGACATGTG GCTGTG	CCAT TACAGACCO	CC CGGGATTTAG	AATCCTCCTT	300
CTGAAAGGCG TC	CCTGTGCAC TCGTG	AGCAC CAGCCTGA	AC AGATGAAAAG	GCTGAGCTGG	360
AGGGGCTGGG AC	CACAGCCCA CCTTG	ACGAC AGCTGCTC	CT GGCTGTGCGG	GGGGGTCTCC	420
AGGAAAGGCC AT	TTCTCCCAC TAGGA	CCCC AGGCCCTA	CT GAGGCTCAAG	CTCCTTTGCT	480
GTTTGGAATC TI	CCCTCCCC AGCCC	CCCAG CCTCATCA	AA GGCTGCCTTT	TCCTGTTCAC	540
TGACCACAGC TO	SCTTTGACT CCATT	AGCCT CGAG			574

- (2) INFORMATION FOR SEQ ID NO:872:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 528 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:872:

GAATTCGGCG TTCATGGCCT	ACCAGACTAC	TACGGACTCA	TCTAACAAAA	CAGCACCGAC	60
TCCAGCATCC AGTGTCACCA	TCATGGCTAC	AGATACAGCC	CAGCAGAGCA	CAGTCCCCAC	120
TTCCAAGGCC AACGAAATCT					180
CTCACCGGGG ACTACAACCC					240
TAGAGGAGGC GGCTCAGGCA					300
TGCACACACC ACTACAGTTG					360
CCAGAATGGA GCAGAAGATA					420
AGACCTCACA TCCACTAAGG	CAGAACATCT	GACGACCCCT	CACCCTACAA	GTCCACTTAG	480
CCCCCGACAA CCCACTTCGA	CGCATCCTGT	GGCCACCCCC	AACTCGAG		528

- (2) INFORMATION FOR SEQ ID NO:873:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 611 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:873:

GAATTCGGCC TTC	ATGGCCT AAGCTGCACA	AAACGTAGAA	AGAAGACATA	GCGCCTGCCA	60
GGGGAATAGG AAAT	rgagggc acttacacat	TAATGTGAAT	TAGTAATTGT	GGTATAGAAA	120
TGTTTTATAG TGAA	AGATTC AAATTTGCTT	TTCAAGAAAA	ATGCCAAAAG	CTATTTAAAT	180
AATTCGAGGT TACA	ATCGTAG GTTTTGATTT	TTCTCAATTT	AAGATACAGA	AATACAGCAA	240
GCCTTAATAT AAAG	STTTCCT AAAGTTTCTT	CAAGTATTTT	TTAAGGTGGA	GAAATGCAGG	300
AATTGTATAA CCAC	SAATTGT TTCTGCCTTT	AGCTTTTCAG	AACTTGAGAT	GTGGCAGCAC	360
TGGACTGGGT TTTT	TTTAAAT GTTAGGACTA	GGAATGTTTG	CTCTTGTTAA	TTATGAATTA	420
ATTGATTATT AAGT	TTTAGAA TGCATTTTTA	CAAGTATCTA	ACTATCAAAT	TGTGTTTAGT	480
AACTTGAGTG TATO	CACAAG TTTGATCAAC	AGCAAAATAG	AGTTCTGAAT	TTCTTTTAAA	540
GTGATGATAT ATTA	ATTTTGT GAAACTTTGT	GTTTGAAAAT	GTTTATTTCT	GTTTATGGTG	600
TAATACTCGA G					611

- (2) INFORMATION FOR SEQ ID NO:874:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 303 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:874:

GAATTCGGCC	TTCATGGCCT	ACGAGCGGTG	AAGGAGGAGA	CCAAGGAGGA	TGCTGAGGAG	60
AAGCAATAAA	TCGTCTTATT	TTATTTTCTT	TTCCTCTCTT	TCCTTTCCTT	TTTTTAAAAA	120
ATTTTACCCT	GCCCCTCTTT	TTCGGTTTGT	TTTTATTCTT	TCATTTTTAC	AAGGGACGTT	180
					GTTTTTGCCC	240
TATTGAAGAT	GACTTCAGAA	AATCCATTCC	CCAGTCATGA	AAATGTACTG	TGCTATTCTC	300
GAG						303

(2) INFORMATION FOR SEQ ID NO:875:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 348 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:875:

GAATTCGGCC TO						60
AAGGCGGTCG TC						120
AGAACCTAGA AG						180
GCAGCCTGCC CA	AAGAAGCTG	GCACTGCTGA	AGGCCCCAGC	CAAGAAGAAA	GGGGCAGCTG	240
CCGCCACCTC CT	rccaagaca	CCTTCCTGAG	GACGCTGGCC	CCAGTGCAGG	CCAACATCCC	300
ACCCCCTACC TO	CCATATGGG	ACCTTGCAAG	TCATCCCACT	TCCTCGAG		348

- (2) INFORMATION FOR SEQ ID NO:876:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 586 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:876:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGAGAC	60
TATTTTCCAT	TTCACACAAG	AAATCTTTGA	TTATTCAGTA	AAAAGAGGAA	ATATAAGAAA	120
AAAAATCAGA	CTAGTCTGGC	CAACATGGTC	TAAAAATACA	AAATTAGCCA	GGCATGGTGG	180
	TAATCCCAGC					240
	TGCAGTGAGC					300
AGACTCCCTC	TCCAAAAAAG	AAAAAAATT	AAAAGAAAAA	AAAGGCCGGG	TGCAGTGGTT	360
CGGCCTCCCA	AAGTGCGGGG	ATTACAGGCG	TGAGCCACCA	TGCCCGGCCA	CTTTCTGTAT	420
	ATAAGAAATA					480
AATATTCAGT	AACTGGAAGA	TGCCAATGAA	CATTGTTGGG	TAGTATTTAA	ATAACAAAAT	540
GTTCAAATAT	TTGACAAGAT	TAACAACACT	ACACGGCCTT	CTCGAG		586

- (2) INFORMATION FOR SEQ ID NO:877:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 445 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:877:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGGTAA	60
TTTTAAAAAT	TTATGTATTT	TCTAGCATTT	GCCTCAAGGA	TTGAAATTTT	TTTTTTTACT	120
TGTGTTTACA	GGTAGAATTC	TTTATTTAAA	AAGTCAGTTG	AATATCAAAA	CTATTTGATA	180
TTCTTCAGAC	TGGAATATTA	TTCTCTAGTG	TAGAAGAAAA	CATTTTCTGC	TTACAAAACA	240
AATAGTAAAT	ACTCTAAAAT	AGGGGTTGGC	AAACTTTTCT	TAAATAAAAG	GCCAGATGGT	300
	GGTTTTGTGG					360
ATGGGGTCAC	TCTCCCATTC	TCTCTCTCTC	TCTCTCTCTC	TCTCTCTCTC	TCTCTCTTTC	420

TGTGTGTG AGCGGCGCTC TCGAG

(2) INFORM	ATION FOR SEQ ID NO:878:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 586 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:878:	
TCCATTCCC CTCACAGAAG AACAGCCCA AAGAGAGGG CGCCTTTGCC TCTGCACAGG ATATATATAT AAGTAAATCT	AAAGAGCCGG AATTTGGCCC TCGAAGCCAA GAATTCGGCA CGAGGGGGTC GAGAAGCCAG GGGCAGGGTG GGATGGGGAA GACCAGGAGC AGAGTCGAGC CCAGCGCGGG TCTCTGCTCA GCACCCCAGC CGGGGCTCTG GACCCAGGGT GTTCATCCCA ACCCCTCTCA GAGCCTCAAG AGGGTAGCT CGGCTGCCGC TGCCCTATCC CTGGCAACCC CTCCACGTAG CGTACCCCAG CACCTGCCAC ATTTCTTTGA GCTTGAAGTT AACTCTCTTA GAGTCTAACT TTGGTTCATT TACAATAGAT GACTTTATTT GTTTAAAATG TTTAATATAT ATACATACAT TTGTCTGTAA GAATTATGTT TTAAACAGCT GCTGTAGAGT ACCTTTTTTT TACAGTGGAG TATATTTTT AAAGCACAAA ATTGGTGCCA AGACTGGGTG ATTACCCCCT TATTATTTTG CGTCGAGTC CTCGAG	60 120 180 240 300 360 420 480 540
(2) INFORMA	ATION FOR SEQ ID NO:879:	
(i) :	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 414 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:879:	
ATCTTGTCCT TAATTATTTT AACGAGGTCA TTTGTAGACT GAATAAATTA	AAAGAGCCGG AATTTGGCCC TCGAAGCCAA GAATTCGGCA CGAGGGGAAA AAAAATATAT GAGTTTGGGG GTAAGGGGT GGATAGCCAA GCAAAATCAG AAAATGAACA TATGAATTTT TATTAACTTT TAGTTAAAATA CAGATTTTAC GCATAAAGCCT AAATCTATAT AGAGGGCTAA CTCAGGCATT GTCTTGTTTA GGATTAAAAAA CAACCTGTCC TGTTTTGTCA GTTCCCAGCT TCTTCGTTTA GACCAAAAGA AGAAACGTGC TTGTCTCTT ATACCCGCAG AATGAAGGTA AACCGGATTT TTTCATTTTA CTAGGTTCCG CTCTCTCCCT CGAG	60 120 180 240 300 360 414
	TION FOR SEO ID NO:880:	
	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 402 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: GDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:880:	
GAATTCGGCC A	AAAGAGGCCG GAATTTGGCC TCGAAGCCAA GAATTCGGCA CGAGGGTAAT TATGTATTTT CTAGCATTTG CCTCAAGGAT TGAAATTTTT TTTTTTACTT	60 120
	204	

GTGTTTACAG GTAGAATTCT TTATTTAAAA AGTCAGTTGA			180
TCTTCAGACT GGAATATTAT TCTCTAGTGT AGAAGAAAAC			240
ATAGTAAATA CTCTAAAATA GGGGTTGGCA AACTTTTCTT			300
ACTATTTAG GTTTTGTGGG CCATGTGTTG ATAACTATTT		GGGCTACGTA	360
TGGTGTCATT CTCCTATTCT CTCTCTATCA CCTACCCTCG	AG	*	402
(2) INFORMATION FOR SEQ ID NO:881:			
(i) SEQUENCE CHARACTERISTICS:			
(A) LENGTH: 352 base pairs			
(B) TYPE: nucleic acid			
(C) STRANDEDNESS: double			
(D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	881:	•	
GAATTCGGCC AAAGAGGCCG GAATTTGGCC CTCGAAGCCA	AGAATTCGGC	ACGAGGGGCC	60
GTTTTTTTT TTTTTTTTT TTTTTTCNNG NNAGGCTTTC	CCTAGGTGAT	TTTTAATTGC	120
TATTATAAAT AAATATCCAT TTTTCCCATA AAATATTGCT	ATATGTTAGT	ATATTAATCT	180
TGTACTGTTA CCTTTTTCAA CTCTATTGGT TCTGATAGCT	TGTCAGTTGT	CTACCTTTCA	240
TCTTCTAGGT AAATATTTCT TACAAATAAT GAGATTTGCT	CCTACTTTCC	AATTTATCTC	300
ATTACTTTTA CTNNTCTTAC TGCACTGGCT AGGACACCAC	TACCTTCTCG	AG	352
(2) INFORMATION FOR SEQ ID NO:882:			
(i) SEQUENCE CHARACTERISTICS:			
(A) LENGTH: 351 base pairs			
(B) TYPE: nucleic acid			
(C) STRANDEDNESS: double			
(D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:	882:		
TTTTTTTTT TTTTTAACTT AAAAATAGTT GTATTTATAT	TCCACAATTT	GTTCAAATAC	60
TGGTTTTCTT ATAAACTTTC TACAGGATGT TTTTAAACAA			120
ACTATGTACT TGCGGAATTT CAGGGAAATA GTTCTGTGTA			180
ACTAAAGGGA TGGTAGGTGG TCACATGCAG TCCATGTGGG			240
GAGTTTTCTG ATGTGGACCA TCCCTTTGAT GCTGAAGGTA	ATGCATCTGT	TGAAAGAAGT	300
GACTGTAGAT TTGGATTACT GCTCTCTGCA TCTCCCTCTT	TTCTGCTCGA	G	351
(2) INFORMATION FOR SEQ ID NO:883:			
(i) SEQUENCE CHARACTERISTICS:			
(A) LENGTH: 548 base pairs			
(B) TYPE: nucleic acid			
(C) STRANDEDNESS: double			
(D) TOPOLOGY: linear			
(ii) MOLECULE TYPE: cDNA			

60 120

180

GAATTCGGCC TTCATGGCAA GAAGGAGNCT TAGCATCAAA CTTTGGAAAG GGAAGCCAGA GAAAAAGGTA GAATGGACAA GTGACACTGT GGACAATGAA CACATGGGCC GCCGTTCATC

CAAATGCTGC TGTATTTATG AGAAAACTCG GGCCTTTGGC GAGAGCTCCA CGGAAAGTGA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:883:

TGAGGAGGAA	GAAGAGGGCT	GTGGCATACA	CACTGTGTAC	GTGGCCACCG	CAAAGGACGG	240
GTTNTGCAAC	CCTAGGACCG	ACCCCCACCA	CCCTTCCCCA	GCTCCTGACC	NTTCCCAGCC	300
CCCTCCAGGG	CCAATGCAGC	ACTAAATCCC	TCTCTCCTCC	AGCATTCCTG	TGTCTGTCTG	360
GCCCTAAATG	TATCCATGTG	GCTACTTCTC	CAGCCCCCTC	CTTCCCTNTC	TTCTGCCTGA	420
TAGAGGGAAG	AGGAAGAGGA	GGACGAACAG	AGATCCTGAA	ATTCTGACTT	GCTGCTATTC	480
CAGAACCCAG	CCTCCTGGGT	TTCCCCAGTC	CTCATTTTTC	CTCCCAATAC	CCACCCTTCT	540
CTCTCGAG						548

- (2) INFORMATION FOR SEQ ID NO:884:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 446 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:884:

${\tt GAATTCGGCC}$	TTCATGGCCT	AAAAAATACA	AAAAATTAGC	CGGGCGTGTT	GGCGGGCGCC	60
TGTAGTCCCA	GCTACTTGGG	AGGCTGAGGC	AGGAGAATGG	CATGAACCTG	GGAGGCGGAG	120
CTTGCAGTGA	GCCGAGATCG	CGCCACTGCA	CTCCAACCTG	GGAGACACAG	CGAGACTCCG	180
TCTCCNAAAA	ААААААААА	AAAAAAACAC	ACTTGTCTTA	CAAAGACTAA	CAAAAGATAC	240
TAAAATAAAA	AACTTTACAG	CATCATTAGA	AAGCGAACAA	AATCCTAAGA	TAGATACATT	300
TATCTTTCTT	GTTTTAGAAC	TTTTTCTGTG	TAATGGAATG	GAAATGCTTA	ATCTTGTTTC	360
AATGTTTTCA	GTGTTTGTGC	TTTGTCAAAT	TGAGGTTGGA	TGTTAAAGCC	CTTACTACTG	420
TATTATACAA	AGCAGCGAAC	CTCGAG				446

- (2) INFORMATION FOR SEQ ID NO:885:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 344 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:885:

GAATTCGGCC	TTCATGGCCT	AGCCGGCGCC	GCCGNGTCTT	CCCGGTCTCC	TTTCCCGGCC	60
GCACAGGGTT	TTATAGGATC	ACATTGACAA	AAGTACCATG	GAGTTTTATG	AGTCAGCATA	120
TTTTATTGTT	CTTATTCCTT	CAATAGTTAT	TACAGTAATT	TTCCTCTTCT	TCTGGCTTTT	180
CATGAAAGAA	ACATTATATG	ATGAAGTTCT	TGCAAAACAG	AAAAGAGAAC	AAAAGCTTAT	240
TCCTACCAAA	ACAGATAAAA	AGAAAGCAGA	AAAGAAAAAG	AATAAAAAGA	AAGAAATCCA	300
GAATGGAAAC	CTCCATGAAT	CCGACTCTGA	GAGTGTACCT	CGAG		344

- (2) INFORMATION FOR SEQ ID NO:886:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 388 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:886:

GAATTCGGCC	TTCATGGCCT	AAAAATCTAA	ATTAACTGAT	GAATAATTTA	AAACAGAATT	60
TCAACATTGA	GACAATGTAG	AGATATATTA	TGGTATAAAA	TGAAGCATTT	GCACGAACTT	120
TTTAGCTAAA	ATTTGTTTCA	AAGAAGTTGC	TTTTGTTTT	AGTGTACCTT	GAGTTCAACA	180
CAGATGTGAA	TGCCCGCTTT	TTCCAGAAGG	GTTCTTGGGA	GAAAACACTG	GAGAAGTTCT	240
AAGCACTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTAGA	GATGGTTTCT	TAČTCTGTTG	300
TTCAGGCTGG	AGTGCAGTGT	TGCAATCATA	GCTCACTGCA	GCCTTGACCT	CCTGGCCTCA	360
AGTGATACCC	CTGTCTCAGC	CTCTCGAG				388

- (2) INFORMATION FOR SEQ ID NO:887:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 364 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:887:

GCCCCAGTCT	AAGGCATTTA	AAATTAAACA	GCTCTTCAAC	GCCCCAAGTT	ATTTCATCAG	60
GCTAAGAACT	TCTCCGAGAA	ACGCACAAGA	AGGCAGGCAA	ACAGGTGGGT	AGGTGAGAGG	120
TCACGGGGCT	CCATCTGCAA	GCTCCATCTA	CAAGGCATCA	ATCTGCGTTG	TGGCATCAAC	180
GTTAAAATGT	TCTACAGCTT	AGGGATCTTC	TTGAAGCAAG	GTTCCAAGCA	CAAAACTAGT	240
ATGACCGGAG	GCTCAATTTA	GAAGATGCAG	CATCTGAAAA	CCTTTACCCC	AGGAAAGGAG	300
GGGTGCCTGC	TGGCATTCAT	GGGCTCTGGA	ACAAGCATTT	ATTCAAAGCT	GATGGCCCCT	360
CGAG						364

- (2) INFORMATION FOR SEQ ID NO:888:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 416 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:888:

GCACCCCCAA	ATGCCAGCCT	CTCCTTTCTT	CCCATCCACC	AGTATACTGC	GGGGCCATTT	60
CTGGTCTTTG	TCCAACAGGA	AACCCATTTC	TGGTGGGATA	TGCCTTCCAG	TGCCACAGGG	120
CCACTCACCC	CATGCATCTC	TGTCCTGCCC	GTCAGTGCTG	GGACGGACAG	CAAGGGCAAG	180
CCCAGTGTCT	GGCGGATAGG	TGGGTGGGAA	CAGAGAGGGG	AGAATGCCGT	CCTAAGCTTC	240
TGCTTGGGGA	TCCCCCACAC	GACCTGGGTA	CTGCCTGGGA	AACCTGTCCT	AAGTAAAACT	300
ATGGACCTCG	CCTCGCCCAC	CGGCCTGCGA	AGCCAGCATC	TCCGTGAAGG	TGGATGGAAG	360
CGCCTTTGTÇ	CTCATTTTGA	GCTGCAAGCT	GGGTCAGCGG	CTCTGAAGCC	CTCGAG	416

- (2) INFORMATION FOR SEQ ID NO:889:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 349 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:889:

GTAGGCCATG	AAGGCCGAAT	GGAAAAAGTC	AGTTAAAGAG	GACTCAGTCC	CCACAGGTGC	60
GGAGGAGAAT	GTGGTGTGTG	AGTCACCAGT	AGAGATTATA	AAGTCCAAGG	AAGTAGAATC	120
AGCCTTACAA	ACAGTGGACC	TCAACGAAGG	AGATGCTGCA	CCTGAACCCA	CAGAAGCGAA	180
ACTCAAAAGA	GAAGAAAGCA	AACCAAGAAC	CTCTCTGATG	GCGTTTCTCA	GACAAATGAC	240
ATCAGACTCC	ACAGAAAAGA	CTATCACACC	GCCAGAGCCT	GAACCAACAG	GAGCACCACA	300
GAAGGGTAAA	GAGGGCTCCT	CGAAGGACAA	GAAGTCAGCA	GCTCTCGAG		349

- (2) INFORMATION FOR SEQ ID NO:890:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 719 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:890:

GAATTCGGCC	TTCATGGCCT	AGACCTGCCT	CGAGGATGCT	CTGGGTTTGC	TGTAGTCGTC	60
TGTTACTGGT	CNTGTTAGGA	GGAGGGCCAG	GGGGACCCCC	ACCTGGGGCA	GTCCCTTCTG	120
TCCCTTCAGC	AGGTGGCTGA	GCTGGAGCAG	ACATTTTTCT	GACAGAGAGA	GTGAGGGTCT	180
GTTCCTCTCC	GGAGGCTGCG	GCGAGACACC	CGGCGAGGGA	CGCTGCGGCT	GAAGTGGACG	240
GAACTGCCAA	GCTCCGCCTC	GCGCCGACTA	CCCCGCGGTC	TAGCTGCGCT	GGGGTTTCAC	300
CATGTTGGCC	AGGATGGTCT	CGATCTCTTG	ACCTTGTGAT	CTGCCTGCCT	CGGCCTCCCA	360
AAGTGCTGGA	ATTACAGGTA	TGAGCCACTG	TGCCTGACAC	CTGTCAAATT	ATTTTACTGT	420
GTTTATTTAC	CATGTTTCTT	TCACTGTGGG	GTCTCTGTCC	TTGCTGTTTT	GTTTTTCTTT	480
TAACTTCTTT	TGTTATTTAG	GAAGGTTTAT	ATTAATATTT	TAATTCTACA	TTGGATAATT	540
CCTATATCAA	AACTATTGTT	GACAATCAGT	TACAGATGGA	ACTTCGTCTA	CTCTTTCTCC	600
CCTTCTCACT	CCTGCTCTTT	CTCCCTTTCT	CACTCCAGCA	GTTGACTAGT	CTCATTGAAA	660
AAACAAATTG	GGGCCGGCCA	GGCATGATGG	CTCATGCCTG	TAATCCCAGA	CAACTCGAG	719

- (2) INFORMATION FOR SEQ ID NO:891:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 453 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:891:

GAATTCGGCC TTCATGGCCT	AGATACTCCG	CTGAAGATCT	GATGTCACCC	CAAATGCATG	60
GCTCCAGCCT CAGTTCAGCT	TTCCACACTG	CTTGCAGAAA	TTCCTTCATT	TATCTTGAGT	120
TTCTCCTCTC ACTCCCATGG	TAGCTTTTCC	ATTCCCACTG	CCTCTTCTCA	CATTTCAGTA	180
GATGAGAATA GAAGCCATAG	GAAGCAAACT	TCCTCAACCT	CCAGCCAACC	GCCGAGCGAT	240
GGGCATCTCT CGGGACAACT	GGCACAAGCG	CCGCAAAACC	GGGGGCAAGA	GAAAGCCCTA	300
CCACAAGAAG CGGAAGTATG	AGTTGGGGCG	CCCAGCTGCC	AACACCAAGA	TTGGCCCCCG	360
CCGCATCCAC ACAGTCCGTG	TGCGGGGAGG	TAACAAGAAA	TACCGTGCCC	TGAGGTTGGA	420
CGTGGGGAAT TTCTCCTGGG	GCTCAGACTC	GAG			453

- (2) INFORMATION FOR SEQ ID NO:892:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 350 base pairs
    - (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:892:

GAATTCGGCC	TTCATGGCCT	ACCAGCCTCT	GGGCTGAGGC	AAAGACCTCT	GAGGCCCCGT	60
CCACCCAGGA	CCCCTCCACC	CAGGCCTCCA	CTGCGTCCTC	CCCAGCCCCA	GAGGAGAATG	120
CTCCGTCTGA	AGGCCAGCGT	GTGTGGGGTC	AGGGACAGAG	CCCCAGGCCA	GAGAACTCTC	180
TGGAGCGGGA	GGAGATGGGT	CCCGTGCCAG	CGCACACGGA	TGCCTTCCAG	GACTGGGGGC	240
CTGGCAGCAT	GGCCCACGTC	TCTGTGGTCC	CTGTCTCCTC	AGAAGGGACC	CCCAGCAGGG	300
AGCCAGTGGC	TTCAGGCAGC	TGGACCCCTA	AGGCTGAGGA	ACCCCTCGAG		350

- (2) INFORMATION FOR SEQ ID NO:893:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 467 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:893:

AACAGGAGAT	GGACAAGCTG	AAGGAGCAAT	ATGATGCTGA	GTTGCAGGCC	CTGAGGGAGA	60
GTGTGGAAGA	AGCAACCAAG	AATGTCGAGG	TCTTGGCGAG	CAGGAGCAAC	ACTTCAGAGC	120
AAGACCAGGC	GGGGACTGAA	ATGCGCGTGA	AGCTTCTGCA	GGAGGAGAAT	GAGAAGCTGC	180
AGGGAAGAAG	CGAAGAGCTG	GAGCGGAGAG	TTGCTCAGCT	TCAAAGGCAG	ATCGAGGACC	240
TGAAAGGCGA	TGAAGCCAAG	GCGAAGGAAA	CGCTGAAGAA	GTACGAGGGA	GAAATACGAC	300
AGTTAGAGGA	GGCCCTTGTG	CACGCCAGAA	AGGAAGAAAA	AGAAGCTGTG	TCAGCCAGAA	360
GGGCCCTGGA	GAATGAACTG	GAGGCTGCTC	AGGGAAATCT	GAGTCAGACT	ACCCAGGAGC	420
AGAAGCAGTT	GTCTGAGAAG	CTCAAAGAGG	AGAGTGAGGC	GCTCGAG		467

- (2) INFORMATION FOR SEQ ID NO:894:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 315 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:894:

GAATTCGGGC	TTCATGGCCT	ACTCAGCTTT	CCTGGTCTCC	CATCTGAACT	GCTTCTTTGT		60
GCACCTCTTG	TTCTTTCTCT	TGGCTCCCAG	TCTTGATTCC	TGTGATCACT	CTTGCATCAC		120
TAATTGCACA	AGTGATTTCA	GGTGCAATTC	TGATTAGCCT	GCGTCCACAC	AGTGATCGAT		180
GATCCTATGT	GCCTAGAAAG	GACACTGTGT	GCTGCTCATG	ACCTGCAACA	GGAAAAAAGC	•	240
CATTTCTTGT	TAGCAGTGTA	AGAACCTTAG	AGCAAAGGAG	TTGACCTTCT	GATTGAATAT		300
AAGCACAACC	TCGAG						315

- (2) INFORMATION FOR SEQ ID NO:895:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 302 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:895:

GGGCTTAGTT	AGGAGCTATG	GCTAAACATC	ATCCTGATTT	GATCTTTTGC	CGCAAGCAGG	60
CTGGTGTTGC	CATCGGAAGA	CTGTGTGAAA	AATGTGATGG	CAAGTGTGTG	ATTTGTGACT	120
CCTATGTGCG	TCCCTGCACT	CTGGTGCGCA	TATGTGATGA	GTGTAACTAT	GGATCTTACC	180
AGGGGCGCTG	TGTGATCTGT	GGAGGACCTG	GGGTCTCTGA	TGCCTATTAT	TGTAAGGAGT	240
GCACCATCCA	GGAGAAGGAC	AGAGATGGCT	GCCCAAAGAT	TGTCAATCTG	GAGGAACTCG	300
AG						302

- (2) INFORMATION FOR SEQ ID NO:896:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 473 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:896:

GAATTCGGCC	TTCATGGNCT	ANTCTCATTT	NAAATATATC	CTTACTGAAA	CATCTGGAAT	60
AACGTCTGAC	CAAATATCTG	GGTACAGTGA	TCCAGCCAAG	TTGAGACATG	AAATTAATCA	120
CCATGGCCTA	CATTTTTATC	TGTTTGGCTG	CAATTCTGTC	AAAGGCTTCT	GCTCTTCATA	180
ACATTTCACT	CACTAGCTCC	ATGAAGCCAT	ATGATACAAA	CCTTGCCTGT	GTAGCCTTCA	240
CTTTTTTCCA	AAAGAAGTCT	ATTAAATGCC	AATCAAGTAT	CTTCTCCTCC	AAGCTCAGTA	300
GCTCGGGCCT	TCAACAGCTG	TTCCCCATTC	CGATCCATCT	CCCTGAGCTA	CCCTGGCATT	360
CTTATCAGGA	CACTGGAGGA	ATCTATGTAT	GTGCCTCTAA	AGATTCAGCA	CCCAAACATG	420
ATAGAAATCA	CTGTGTTCAC	ACTGTATCTC	TATATCTGCC	CATCCCGCTC	GAG	473

- (2) INFORMATION FOR SEQ ID NO:897:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 594 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:897:

GCTCGAGTGA	AGTGGTATCT	CATTGTGGTT	TGGGTTTTAA	TTTTATAATA	TTTTAATTTT	60
TAAAATCAAA	AGAATATACT	GGGGCTGGGG	TGGTGGCTCA	AGCCTGTAAT	CCCAGCACCC	120
TGGGGGGCCA	AAGGGGGTGG	ACCACCTGAG	TTTATGAGTT	CAAGACCAGC	CTGGCCAACA	180
CGGTGAAACC	CCATCTCCAC	TAAACATACA	AAACTCAGCC	GGGTATGGTG	GCAGGCACCC	240
GTAATCCCAG	CCTCTCAGGA	GGCTGAAACA	GGAGAATCAC	CTGATCCGGG	AGGTGGAGGC	300
TGCCATGAGT	CAGAATCACG	TCACTGCACT	CCAGCCTGAG	AGGAGACCCG	TACAAAAAAA	360
AAAAAAAA	TATATATATA	ATACACACAC	ACACACACAC	ACAAGGATTT	TAGATTTGAA	420
AATGATGTTT	TTTACTCATT	TCAAAATGTA	CTGTAACCTT	TCTTTGGTTC	TTACTGTTTT	480
CATTTAACTT	TCTCTGTTTT	CAAGAAAAAT	TGTCTTTATT	GACATTTGTA	AAAAAGAATG	540
TGTTTTGCCC	AGTTATTAAG	TATTTTATTT	TTATGCAATT	TCAGAACACT	CGAG	594

- (2) INFORMATION FOR SEQ ID NO:898:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 302 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:898:

GAATTCGGCC	TTCATGGCCT	ACTGTACATT	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	mmamaa	AGAATATTGT	
CITITAL TO COLO		IICTOTACATT	111111AAAG	I I'IGI'IGAAA	AGAATATTGT	60
CTTATTCTAT	AAAACATTTC	AAACCTAGTT	AGAGATTTGT	AATCAAAAAA	CATTTGCGCA	120
GAAAGCAGCA	CTTACCCCTC	CCTCTTTTTT	A CCCMA CT CT		AAGAACTGAA	120
		CCIGITCIAI	ACCCTACAGT	CAGACAGGAA	AAGAACTGAA	180
AATGGCACCC	TTCTGACATT	CTGAGGCAGC	TGGACTGGCA	GCCAAGTAAA	GGAGAGTGAT	0.40
GAGGTGGTGT	CCCCACCCTC	CCCTCCCTCC	2222	SCOMOTAM	GGAGAGIGAT	240
070010101	GCGGAGGGTG	GGGAGGCAGC	GCGAGGGTGC	TCTCCACAGG	GTAGGTCTCG	300
AG						
						302

- (2) INFORMATION FOR SEQ ID NO:899:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 475 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: CDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:899:

GCGGCCTTCA	TGGCCTAGTG	CTTGTCAGTT	TGGAAAGTCA	CAGGGAGTTT	ACCATTCTAT	60
AATTAGAGTA	GGAGGAAAAT	GAGAACCCAC	TGGTAGAAGA	AGAAGCAACA	GTCTTCTAGG	120
GICTGGCATT	TGATGAGATA	GGTATTCAGT	TACTGTGCAT	TTCCATTGTT	TTTCCATCCC	180
AGAACATACG	GCAGAGATTT	GGGAACTCGC	ATGCCTGAAG	CCAGGTTATT	ርጥጥን ጥር፤ ጥጥር ጥ	240
GTAACTATGT	TGCTCGCAGG	GCTGTTGTTG	TCAGAGTAGT	GAGTTGTGCC	CCAGACAAAT	300
GGGGTGCTGG	TCTGCTCCCA	CAAATCTTTA	TCCCAGTCTT	CATCGCAAGG	AGGGCACTGC	360
CAAGTGCTCT	CAGCCAGAGT	CTCTTGTCTA	AGGCTCCTGG	TTTGGTTGAC	AACATCTTCC	420
TCAATACAAC	TTCTGTCATC	ACAGCTTGAG	ATATGATGAC	TAATTTCAGC	TCGAG	475

- (2) INFORMATION FOR SEQ ID NO:900:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 507 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:900:

(2) INFORMATION FOR SEQ ID NO:901:

PCT/US98/06956 WO 98/45437

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 495 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA -
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:901:

GAATTCGGCC	TTCATGGCCT	AGTTTGGATT	TTCATATTAG	GGATACTCAA	CTGGTATTAT	60
TATTCTGGCC	CCTGCAAATT	TTTCAGTAGG	TCCCCTAGTA	TGTCATGCCA	GGGACTATGN	120
GAGTTCCTGG	GAATAGCACT	GTAANACATT	CTTGAGTGGG	TCCTTGACTC	CATTGAGTTT	180
ATAATCTCGT	AGGAGGAAGG	CTATGAAGAA	TTCTAATAAA	GCAAAGCAAG	CAATCACAAC	240
AAACCTTCCT	CTTTAACTTA	TCAAAAATGG	AAACTTTGAA	GAGCTGCTCT	TTAATAAATC	300
ATTGGAAAGC	ACCAGGACCC	AGGTGTTTTG	ACTCAGCCTC	ATTTCAGACT	GAGATCTGAG	360
GCCATGATAA	CTCATGTGCC	TATATATGCT	GATAATCACC	ATTACCTATA	CCATTCTTTA	420
CATTCTCTCA	TCTACACAAT	CATCTTCAAC	TCTCTCTCAT	CCACTTCAGC	GATTGAATTC	480
TTTACCGGCC	TCGAG					495

- (2) INFORMATION FOR SEQ ID NO:902:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 266 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:902:

GAATTCGGCC	AAAGAGGCCT	AGAATTCCAG	ACCTAGCTCA	ACCCATGCCT	CCTTTCCTTC	60
CTTCCCTCCT	TCCTTTCTTT	CTTTTTCCTT	TTCTCCTTCC	CTCCCTTCTC	CCTTTCTTCC	120
TTCTCTCCCT	CTTTCTCTTT	CTCCCTTCTT	CCTGCTCTTC	CTTCCTTCCT	CCCTCCCTCC	180
CCTCCCTTCT	TTCCTTTCCT	CCCTCCCTTC	CATTCTTTCC	TCCCCCACCC	CCCGTTTCTT	240
CTCTTTGGAG	AGATGTACAG	CTCGAG				266

- (2) INFORMATION FOR SEQ ID NO:903:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 410 base pairs

    - (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:903:

GAATTCGGCC	AAAGAGGCCT	AAATGAGAGC	TGAGTGAAGT	GGATGCCCCT	TATAAAAACA	60
TCAGATCTCG	TGAGAACTTA	CTATCACTAG	AATAGCATGG	GGGAACCACC	CCATGATTCA	120
GTTACCTGCC	CCCAGGTCTC	TGCCACCACA	CATGGGGATT	ATGGGAACTA	CAACTCAAGA	180
TGAGATTTGG	GTGGGGACAC	AGGCAAATTA	TATCAGCTGT	TGTGCTCATT	AGTTTGTATA	240
TCATCCTTGG	CTCCTTTAGC	ACTATAAGGG	CAGGATTGAG	TCCTTGCAAC	AGAAACCATT	300
CAGCCTGCAA	AGCTGAACCT	ATTTACTTTC	TGACCCTTTA	TGGAAAAGTT	TACTGATCTC	360
TGGACTAGAC	AGTTTTTTAA	AAATGACATC	TTATGACCGG	GATTCTCGAG		410

(2) INFORMATION FOR SEQ ID NO:904:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 326 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:904:

AGCCGAGACT	CTGTCTCAAA	AAAAAGAAAA	AAAGCTGCTT	60
ACTGGGAATC	TAGGTGTTTC	AAGCGCCCCA	GGCGATTCTT	120
GACACTTCAT	TAAGCAAAAT	CTTTTGGCCG	TTTTGTTCTG	180
CATTGAGTGG	TCACCAAGAG	TTTGGGGTGG	ACTGATCATC	240
TTGAATTTAG	TTTTACTACT	CAGAGCTTAT	TAGACTTGAG	300
CTCGAG				326
	ACTGGGAATC GACACTTCAT CATTGAGTGG	ACTGGGAATC TAGGTGTTTC GACACTTCAT TAAGCAAAAT CATTGAGTGG TCACCAAGAG TTGAATTTAG TTTTACTACT	ACTGGGAATC TAGGTGTTTC AAGCGCCCCA GACACTTCAT TAAGCAAAAT CTTTTGGCCG CATTGAGTGG TCACCAAGAG TTTGGGGTGG TTGAATTTAG TTTTACTACT CAGAGCTTAT	AGCCGAGACT CTGTCTCAAA AAAAGAAAA AAAGCTGCTT ACTGGGAATC TAGGTGTTTC AAGCGCCCCA GGCGATTCTT GACACTTCAT TAAGCAAAAAT CTTTTGGCCG TTTTGTTCTG CATTGAGTGG TCACCAAGAG TTTGGGGTGG ACTGATCATC TTGAATTTAG TTTTACTACT CAGAGCTTAT TAGACTTGAG CTCGAG

- (2) INFORMATION FOR SEQ ID NO:905:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 410 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:905:

GAATTCGGCC	AAAGAGGCCT	AGGAACTGTT	TTGACCCTGA	AGGCTATTTA	ATCCACTGTC	60
CCCTACAAGG	CCTCACAAGT	GCTGGGGGAA	AAAAAACAGC	AATGAGGATG	ATCCTGAGTT	120
AATGTGTATG	CTCCGCAAGA	GAGCTTGCCT	ATACCTTGAT	TATTTCATAA	AATCACATGT	180
TAATACATTG	CTTTCAGAAT	GAAATACTGA	CTTGATCTGA	TAGGAGAAAA	TGGTAATATT	240
TCATAGTTGT	TTTCCAAAGA	CAAATTTAAA	TGTTGTCTGT	TATCTCCTTA	CTTAGTTTAA	300
GAATTTAGTT	TTGAACCCCA	TTGACTTTGT	CATTTGCAAT	TTTAAAAAATA	TTTGGGACTG	360
GGCATGGTCG	CTCACGCCTG	TAATCCCAGC	ACTTTGGGAG	GCATCTCGAG		410

- (2) INFORMATION FOR SEQ ID NO:906:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 498 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:906:

GAATTCGGCC	AAAGAGGCCT	ACGCTTCCCG	GGTTCAAGCG	ATTCTCCTGC	CTCAGCCTTT	60
TGAGTGGCTG	GGACTACAGG	TGGATGCCTC	CATGCCTGGC	TAATTTTTTG	TATTTTAGTG	120
GAGACAGGGT	TTCACCGTGT	TGCCCGGGCT	GGTCTTGAAC	TCGTGAGCTC	GGGCAATCCA	180
CACTCCTTGG	CCTCCCAAAG	TGCTAGGATT	ACAGGTGTGA	GCCACTGCAC	CCGGTCGAGG	240
TACAGTTTTG	AAGTTCATGC	AAATCTCATC	ATTTGCTCTT	CTGCAACAAA	ACATTTTCTT	300
TCAACTTATT	TTGCCTGTGT	GAAGCTCAGT	GCTTTAACTC	ATATATGGAG	TTATCTTCTT	360
CCCTCAGACT	GGAGACGTTG	GTGAAATTGG	GGCTAGACTG	AAGATGTCTA	AGGTGGCTTG	420
ATTGACAAAG	GTCTCTCCTC	ATCCCCAAAA	TAAATAACAT	TTTTTCATTT	ATAATAGTAA	480
TACACCAGTC	GACTCGAG					498

- (2) INFORMATION FOR SEQ ID NO:907:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 481 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:907:

GAATTCGGCC	AAAGAGGCCT	AAACTGGTGC	TGGTTTCACA	TCACGACAGC	AACGGGATTC	60
TTTTGCTTTG	AAAATGTTGC	AGTCCACCTG	TCCAACTTGA	TCTTCCGGAC	ATTTGACTTG	120
TTTCTGGTTA	TCCACCATCT	CTTTGCCTTT	CTTGGGTTTC	TTGGCTGCTT	GGTCAATCTC	180
CAAGCTGGCC	ACTATCTAGC	TATGACCACG	TTGCTCCTGG	AGATGAGCAC	GCCCTTTACC	240
TGCGTTTCCT	GGATGCTCTT	AAAGGCGGGC	TGGTCCGAGT	CTCTGTTTTG	GAAGCTCAAC	300
CAGTGGCTGA	TGATTCACAT	GTTTCACTGC	CGCATGGTTC	TAACCTACCA	CATGTGGTGG	360
GTGTGTTTCT	GGCACTGGGA	CGGCCTGGTC	AGCAGCCTGT	ATCTGCCTCA	TTTGACACTG	420
TTCCTTGTCG	GACTGGCTCT	GCTTACGCTA	ATCATTAATC	CATATTGGAC	CCAGACTCGA	480
G						481

- (2) INFORMATION FOR SEQ ID NO:908:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 764 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:908:

GAATTCGGCC	AAAGAGGCCT	AGAAACAATG	GTTTTCAGAC	ACTGAAAGTT	CATAGTACAG	60
GACTGTGATC	TCTGCGAGAA	GGGGGAATAA	TGAGGTGAGT	CCAGTGATTG	CTCAGGCGAA	120
TGGCCTGGAG	GCAGTTTCTA	GGCAGCAAAG	CAGGGAGAGG	GAAGCCAGAG	ACCAGTGGTC	180
CTGCTGTGTT	GAGGAGATGG	AGATCAGTGT	CACCGGAGGC	CAAGGTGAGT	AAGTGAGAGG	240
AGAGGAGGCA	GCAGCACACA	GACAGAGAGT	GCTGTAGATC	TGCAGTGGGT	CCCCTGGAGT	300
CCTTGGTTGA	GTGAAGGTGT	TAGAAGAAAC	TACTTAAGCC	AAGAAATGAG	TAACTGGAAA	360
TTAGTAGAGC	AAATAATTTA	CAGATCATCT	ATGGGGCTGG	GAAAAGTTTG	TGTTTCCACT	420
AGCCAGAGTA	GAAATAACTC	ATAATGCATG	GGTCATCAGG	TGGAGTCCTC	CAACAGGTGT	480
TGCCTTAGTA	CTGAGGTCAA	ATTGTCCCTA	GACCAAAGGC	TTCTTTGGAC	TTCCCCTAAC	540
AAAGCTTAAA	GACAAGCCTT	GGAAGGATCA	AACTAATTTC	AAGAAACTTA	ACTGTGAATC	600
AGAATAAAAC	CCAATACCAT	TTATAGGAAT	ATAACAAAAT	CCATCAACAN	ACNACATAAC	660
ACTCATAATT	ACCAACATTC	AGTAAAAAAT	TACTGGAAAC	AGAGAAATAT	AAATTATGGC	720
CCATAATTAG	GAAAAAAGGG	TAATCATTAG	AGGTAGAACT	CGAG		764

- (2) INFORMATION FOR SEQ ID NO:909:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 157 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:909:

GAATTCGGCC	AAAGAGGCCT	ACTAAGGACT	TGTTTCGGAA	GGAGCTGACT	GGCCAATCAC	60
AATTGCGAAG	ATGAAGGCTC	TGTGGGCCGT	GCTGTTGGTC	ACATTGCTGA	CAGGATGCCT	120
AGCCGAGGGA	GAGCCGGAGG	TGACAGATCA	GCTCGAG			157

- (2) INFORMATION FOR SEQ ID NO:910:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 487 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:910:

C	BAATTCGCGG	CCGCGTCGAC	AGAATAGACC	${\tt TGGTTTGTGA}$	ATTATGGCCT	GGATTTCACT	60
7	TATACTCTCT	CTCCTGGCTC	TCAGCTCAGG	GGCCATTTCC	CAGGCTGTTG	TGACTCAGGA	120
F	TCTGCACTC	ACCACATCAC	CTGGTGAAAC	AGTCACACTC	ACTTGTCGCT	CAAGTACTGG	180
C	GCTGTTACA	ACTAGTAACT	ATGCCAACTG	GGTCCAAGAA	AAACCAGATC	ATTTATTCAC	240
7	GGTCTAATA	GGTGGTACCA	ACAACCGAGC	TCCAGGTGTT	CCTGCCAGAT	TCTCAGGCTC	300
C	CTGATTGGA	GACAAGGCTG	CCCTCACCAT	CACAGGGGCA	CAGACTGAGG	ATGAGGCAAT	360
I	TATTTCTGT	GCTCTATGGT	ACAGCAACCA	TTGGGTGTTC	GGTGGAGGAA	CCAAACTGAC	420
7	CTCCTAGGC	CAGCCCAAGT	CTTCGCCATC	AGTCACCCTG	TTTCCACCTT	CCTCTGAAGA	480
C	CTCGAG						487

- (2) INFORMATION FOR SEQ ID NO:911:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 478 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:911:

GAATTCGCGG	CCGCGTCGAC	AGTTACTGAG	CACACAGGAC	CTCACAATGG	GATGGAGCTA	60
TATCATCCTC	TTTTTGGTAG	CAACAGCTAC	AGGTGTCCAC	TCCCAGGTCC	AACTGCAGCA	120
GCCTGGGGCT	GAGCTGGTAA	AGCCTGGGGC	TTCAGTGAAG	TTGTCCTGCA	AGGCTTCTGG	180
CTACACTTTC	ACCAGCTACT	GGATGCACTG	GGTGAAGCAG	AGGCCTGGAC	AAGGCCTTGA	240
GTGGATTGGA	ATGATTCATC	CTAATAGTGG	TAGTACTAAC	TACAATGAGA	AGTTCAAGAG	300
CAAGGCCACA	CTGACTGTAG	ACAAATCCTC	CAGCACAGCC	TACATGCAAC	TCAGCAGCCT	360
GACATCTGAG	GACTCTGCGG	TCTATTACTG	TGCAAGGGAC	AGCTCAGGCT	ACGACTATGC	420
TATGGACTAC	TGGGGTCAAG	GAACCTCAGT	CACCGTCTCC	TCAGCCAAAA	CGCTCGAG	478

- (2) INFORMATION FOR SEQ ID NO:912:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 433 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:912:

GAATTCGCGG CCGCGTCGAC CCAGGATGCC GCGCAGCAGA GCTCTGATTC TGGGGGTCCT CGCCCTGACC ACCATGCTCA GCCTCTGTGG AGGTGAAGAC GACATTGAGG CCGACCACGT AGGCACCTAT GGTATAAGTG TATATCAGTC TCCTGGAGAC ATTGGCCAGT ACACATTTGA ATTTGATGGT GATGAGTTGT TCTATGTGGA CTTGGATAAG AAGGAGACTG TCTGGATGCT TCCTGAGTTT GGCCAATTGG CAAGCTTTGA CCCCCAAGGT GGACTGCAAA ACATAGCTGT AGTAAAACAC AACTTGGGAG TCTTGACTAA GAGGTCAAAT TCCACCCCAG CTACCAATGA GGCTCCTCAA GCGACTGTGT TCCCCCAAGTC CCCTGTGCTG CTGGGTCAGC CCAACACCCT CATCATGCTC GAG	60 120 180 240 300 360 420 433
(2) INFORMATION FOR SEQ ID NO:913:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 139 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:913:	
GAATTCGCGG CCGCGTCGAC GCAAGATGGA TTCACAGGCC CAGGTTCTTA TATTGCTGCT GCTATGGGTA TCTGGTACCT GTGGGGACAT TGTGATGTCA CAGTCTCCAT CCTCCCTGGC TGTGTCAGCA GGAGAGAAG	60 120 139
(2) INFORMATION FOR SEQ ID NO:914:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 166 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:914:	
GAATTCGCGG CCGCGTCGAC ATCATGGCTA CCCTGCGTGT CCCACTCCTG GTGGCTCTCG TCCTTCTTGC TGTGGCAATT CAGACCTCTG ATGCAGGTCC CTATGGTGCC AATGTGGAAG ACAGTATCTG CTGCCAGGAC TACATCCGTC ACCCTCTGCC ATCACG	60 120 166
(2) INFORMATION FOR SEQ ID NO:915:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 590 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:915:	
GAATTCGCGG CCGCGTCGAC TTCTTGGGCA GCACAGAAGA CAGAGCCGAT TTTGACCAAG	60
CTATGTTCCC TGTGATGGAG ACCTTCGAAA TCAATGATCC AGTGCCCAAG AAGAGAAATG	120
GGGGGACCTT CTGCATGGCA GTCATGGCCA TCCACCTGAT CCTGCTCACG GCAGGTACTG	180
CACTGCTGCT GATTCAAGTT CTCAATCTGC AGGAGCAGCT CCAGATGCTA GAGATGTGCT GTGGCAATGG ATCACTAGCT ATCGAGGACA AGCCCTTCTT CTCGCTGCAG TGGGCACCCA	240 300

AAACACACCT GGTACCTAGA GCACAGGGGC TGCAAGCCTT GCAGGCCCAG CTCAGCTGGG

PCT/US98/06956 WO 98/45437

TCCATACCAG CCAGGAGCAA CTCCGTCAGC AGTTCAACAA CCTCACTCAA AATCCAGAGT TGTTCCAGAT TAAAGGTGAA CGAGGCTCTC CAGGTCCAAA AGGGGCCCCG GGTGCTCCTG GAATCCCCG GCTGCCTGG CCAGCTGCTG AGAAGGGAGA AAAGGGGGCT GCAGGTCGTG ATGGAACCCC AGGTGTCCAA GGACCCCAGG GCCCACCAGG AAAACTCGAG	480
(2) INFORMATION FOR SEQ ID NO:916:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 592 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:916:	
GAATTCGCGG CCGCTCGAC GGAAGAGCAA TGAAAACATA TGCTCCTACA TTATTCATGT TTCTATGCT GCAGCTGGAT GGGATGAGCC AAGGTGAGCA GGTGGAGCAG CTTCCTTCCA TCCTGAGAGT CCAGCAGGAGGA TCCNGTGCCA GCATCAACTG CACTTATGAG AACAGTGCCT CCAACTACTT CCCTTGGTAT AAGCAAGAAC CTGGAGAGAA TCCTAAGCTC ATCATTGACA TCGTTCAAA TATGGAAAGA AAGCAGACCC AAGGACTCAT CGTTTTACTG GATAAGAAAG CCAAACGTTC TCCCTGCACA TCACAGACAC CCAGCCTGGA GACTCAGCCA TGTACTTCTG TGCTGCAGAT GAGAGCACA ATCACAGACAC TGCTGTTACT GGGGATGGGA CCGTGCTCAC AGTGAAGCA AACATCCAGA ACCAGAAACC TGCTTGTAC CAGTTAAAAG ATCCTGGTC TCAGGACAGC ACCCTCGCC TGTTCACCGA CTTTGACTC CAAATCAATG TGCCGAAAAC CATGGAATCT GGAACGTTCA TCACTGACAA AACTGTGCTG GACAATCTCG AG	60 120 180 240 300 360 420 480 540
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 166 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:917:	
GAATTCGCGG CCGCGTCGAC GAATGAGGTG CTCTCTTCAG TTCCTGGGGG TGCTTATGTT CTGGATCTCT GGAGTCAGTG GGGATATTGT GATAACCCAG GATGAACTCT CCAATCCTGT CACTTCTGGA GAATCAGTTT CCATCTCCTG CAGGTCTAGT AAGAGC	60 120 166

- (2) INFORMATION FOR SEQ ID NO:918:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 200 base pairs

    - (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:918:

GAATTCGCGG CCGCGTCGAC GTCTGAGAGG AACCCTTCTC TGAGGATGGA CACTTCTCAC 60 120 ACTACAAAGT CCTGTTTGCT GATTCTTCTT GTGGCCCTAC TGTGTGCAGA AAGAGCTCAG GGACTGGAGT GTTACCAGTG CTATGGAGTC CCATTTGAGA CTTCTTGCCC ATCAATTACC 180 TGCCCCTACC CTATAGTGAG

(2) INFORMAT	ION FOR SEQ ID NO:919:	
(i) SE	EQUENCE CHARACTERISTICS:  (A) LENGTH: 231 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) M	OLECULE TYPE: cDNA	
(xi) S	SEQUENCE DESCRIPTION: SEQ ID NO:919	:
AGTGCTGCCG TO CTCGCAAGGA CO GCCATAGGGA AG	EGGGTCGAC CCAACCTTCC GGAAGCCTCC CCA CATTTTCTG CCTCATCCTG CTGGGTCTGA GTG GGTCCGCTG CAACTGCATC CATATCGATG ACG GCTTGAAAT CATCCCTGCG AGCCTATCCT GCC	GGGCCAGT GAGAATGAGG 180
(i) SE	QUENCE CHARACTERISTICS:  (A) LENGTH: 115 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) M	OLECULE TYPE: cDNA	
(xi) S	EQUENCE DESCRIPTION: SEQ ID NO:920	:
	CGCGTCGAC GTTTTGTTAT TGTTACGAAG TAA PAGAAGTGG CGATTAGTGT AATTAGTAGG GCT	
(2) INFORMATI	ON FOR SEQ ID NO:921:	
(i) SE	QUENCE CHARACTERISTICS:  (A) LENGTH: 213 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) M	OLECULE TYPE: cDNA	
(xi) S	EQUENCE DESCRIPTION: SEQ ID NO:921	:.
CCCAGTCTGT CA TGGGTTGTGT CA AGATTCTAAA GC	GAAATCAAA ATTAATTTGA CAAAGGAAAA GCA ATACAATTC ACCACTGGCC AGGTGCTGAG AGA AGAGTTGGA CGGCTCCATC CCTTTGGCTT CAT CAACCCGTC GACGCGGCCG CGA	AGCATTA GGGAACAGTG 120
	ON FOR SEQ ID NO:922:  QUENCE CHARACTERISTICS:  (A) LENGTH: 504 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:922:

GAATTCGGCC	AAGAGGCCTA	CTTAGAAGCC	AAAGAAGGAG	ATTTGCACAG	GATAGAAATC	60
CCATTCAAAT	TCCACATGCT	GCATTCAGGG	CTGGTCCACG	GCCTGGCTTT	CTGGTTTGAC	120
GTTGCTTTCA	TCGGCTCCAT	AATGACCGTG	TGGCTGTCCA	CAGCCCCGAC	AGAGCCCCTG	180
ACCCACTGGT	ACCAGGTGCG	GTGCCTGTTC	CAGTCACCAC	TGTTCGCCAA	GGCAGGGGAC	240
ACGCTCTCAG	GGACATGTCT	GCTTATTGCC	AACAAAAGAC	AGAGCTACGA	CATCAGTATT	300
GTGGCCCAGG	TGGACCAGAC	CGGCTCCAAG	TCCAGTAACC	TCCTGGATCT	GAAAAACCCC	360
TTCTTTAGAT	ACACGGGCAC	AACGCCCTCA	CCCCCACCCG	GCTCCCACTA	CACATCTCCC	420
TCGGAAAACA	TGTGGAACAC	GGGCAGCACC	TACAACCTCA	GCAGCGGGAT	GGCCGTGGCA	480
${\tt GGGATGCCGA}$	CCACCAGACT	CGAG				504

- (2) INFORMATION FOR SEQ ID NO:923:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 119 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:923:

GAATTCGGCC AAAGAGGCCT	ACATTCATCA	AGTCATCCAA	CTTCTATAGT	CAAAGCAGGA	60
TCATGTGGCG AAGCATATGC	TCCACAAGGG	TGGATAGCTT	TTTTCATGGA	ATTCTCGAG	119

- (2) INFORMATION FOR SEQ ID NO:924:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 706 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:924:

GAATTCGGCC	AAAGAGGCCT	AAAGAGAGTG	GAGGAGGAGG	ACAAGATTGA	TACTATGAGA	60
GTTGGAGGAC	ATAATTCATG	GATCATAGCT	CCAGAAGTGA	AAAGGGAGGA	AATGTAGACA	120
GAGGAAGGCA	TTAGCCATTG	AGAAGAATAG	GGACATATTT	TCTTTACTCT	CTTGTCAGAG	180
GAAGATAGCT	GGGGGAGTAT	AGACAAGTTG	TAAGAATGAA	GGAAGGAAGG	CAAGAGCAGA	240
CTTGTCGGAT	GAATTTTATT	TTCTCTATGA	AGTTTGAGAA	TTAAACTTTA	TGCTGAGAAG	300
GAGGGCAGGA	GAGACTGTAT	ATGGAATGTA	AGGTTTGGGA	TAACCAATGT	AAGTTTTGGG	360
AATGAGAAAG	CCACCTAGGG	ATGAGGAAAA	AAATTTTAAA	ATTTTGTATC	CACTGAAAAT	420
TCTTCAACAG	TGTAAAATGA	AGCATGCTCA	ACTGGAAATG	GTCATATATC	TAAAAGAAAA	480
TGGATTTATT	TTGTTATTTT	TCTCTATATT	TGTAGTATTT	TACAGTAAGC	ATGTATTACC	540
TTTATAGTGA	AAAAGTGTCA	TTTTTTTACA	TTGGTCAATT	TTTTGTTATT	AAATTTCATG	600
CTTGTTTTTA	ATTGTTTCTT	GTGTGTATGA	TTGCAATATC	AGGTATTTGA	TGTGGTGATG	660
TGTGTGATTC	AGAAGTCAGA	AGACTTAAGT	TCCGACACCC	CTCGAG		706

- (2) INFORMATION FOR SEQ ID NO:925:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 651 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
  (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:925:

GAATTCGGCC	AAAGAGGCCT	AGGATTCAAA	TTATTCTGAC	AGACCTGTGT	GGCAGTTCAG	60
GCTGATAGCT	GGAGTTTCTT	GTCTTTTTCT	ACATGGCCTT	TCATCTTCCA	AGAGTTAGAC	120
TATGATTCTT	CACATCATGA	TGGCTTAGGG	TCCCAAAAAG	AAAAGAGTAG	AACTTGCAAT	180
ACCTCTTAAG	CCCTATGCCC	AAGAACTCAT	ACAGTGATAC	TTCTGCCACC	TTGTGTTAGT	240
CAAAGCAAGT	CACAAGGCCA	GCCAGATTCA	AAAGAATGGA	AAAATAGACT	CAATTTCCTG	300
GTGAGAAGTA	GCAAGGTCAC	ATTGCAAAGG	AGTCTGGACA	TGGGAAGGAG	TTACTCATTT	360
GTGGCCTTTA	TAATAATCTT	CCACAAATGC	CTGTAATTTG	GGCACTGTGC	TTAGTACTGG	420
TGATAGAAGA	TAAGTAGCTT	ATTTCAGTAT	CTTAATTTTG	TATATATTT	TTGATAATTT	480
TATGATGCAG	GTTCACTGTG	CACTGGTATC	AATCCCAGGG	GAGGACTGTA	AACACCTTGC	540
CAATACTGTG	TACCAGTA: C	AATCCACTGG	CATGAGTCTG	GTGAGACAGA	ACACACAATA	600
AGTTTAGGGA	AGCAACTTTA	TTACTCACAG	ACAGGCAGCA	AGGGACTCGA	G	651

- (2) INFORMATION FOR SEQ ID NO:926:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 700 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:926:

GAATTCGGCC	AAAGAGGCCT	AAAAAGATGA	AAGGACCAAT	CAAAGATTTA	ATTAAAGCTA	60
AAGGGAAAGA	TTTAGAGACA	GAGAATGAAG	AAAGAAATTC	TAAGTTGGTG	GTGGACAAAC	120
CAGAACAGAC	AGTGAAGACC	TTTCCACTGC	CAGCTGTTGG	TTTGGAAAGA	GCAGCTACTA	180
CAAAGGCAGA	TAAAGACATC	AAGAATCCAA	TCCAACCATC	CTTCAAAATG	ATAAAAATT	240
CTAAACCAAT	GACTACTTTC	CAAGAAGAAA	CCAAGGCTCA	GTTTTACGCA	TCAGAGAAAA	300
CCCTCCTAAA	AGAGAACTTG	CCAAAGATTT	GCCTAAATCA	GGAGAAAGTC	GATGTAATCC	360
TTCAGAAGCT	GGAGCGTCTT	TACTGGTTGG	CTCAATAGAA	CCTTCTTTGT	CAAATCAAGA	420
TAGAAAATAT	TCCTCAATTC	TACCTAATGA	TGTACAAACT	ACCTCTGGTG	ATCTCAAATT	480
GGACAAAATT	GATCCCCAAA	GACAGGAAAT	TCTAGTAAAA	TTACTAGATG	TGCCTACTGG	540
TGATTGTCAT	ATTTCTCCAA	AGAATGTCAG	TGATGGGGTT	AAAAGGGTAA	GAACATTATT	600
AAGCAATGAG	AGAGATTCCA	AAGGCAGGGA	TCACCTCTCA	GGAGTCCCTA	CTGATGTTAC	660
AGTTACTGAG	ACTCCAGAAA	AGAACACAGA	ATCCCTCGAG			700

- (2) INFORMATION FOR SEQ ID NO:927:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 378 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:927:

GAATTCGGCC AAAGAGGCCT	AGGGGTGGTG	GAGGCGTGGA	CCCAACGGTG	ACCGTCGGGA	60
TGGAGCAAGG GCAAGGAGAG	GCTCTGGCCC	AGACACAGCT	TGGAAAAGCT	CATCTCCCTC	120
TGGGGTTTAA AAACTCAAAC	CAAACGGAGC	AAGCCTGGCG	GCCCTGGGGA	TGGGGCAGGG	180

CCTCTACCTC ACTGTGATCT TCGACCTGGC GACACAGGAC AGCCACACAG AAGCACGCCA ACACACTTAA AGCTTTGCTC CAACTAAATC ATTTAGTTTC CCTTGAAGAA ATAACTGAAA AAAAAAACAA CTGCTGACAT CTATGTCTGT AGCTCGATTT TACAGTCTGC TCTTTGTGAG AAAGGAAAAT CACTCGAG	240 300 360 378
(2) INFORMATION FOR SEQ ID NO:928:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 426 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:928:	
GAATTCGGCC AAAGAGGCCT AATATTTCAC ATTTCTCTTT TCTAAAAGTG TAAATTTTTC ACTTTAAAAAT GAAGCAAGAA TTAAATAAAAT AGAACAAATA CCATATATCA TCACAGAGTC AATATATATT GGTCCTGTTC TGACCAAGTG TTGCATTGTA TTTGTGTTAC CAGAACTGCA GGGCTTTCTA TGGCTACATG GTCAGTGCAT GCTCAGACAG CTGTTAAAAAT CAAAAACCTTC ACTGTGCTGG GTCACCTGGT AACTACCTGTC TATCTCACAA GTGCATTCTG CTGACATTCA AGGGTTAAAA CCTGCTTCTC TAAATACTGT GCTTTAAAAGT AGTACATACT GTCAGCTGTG TTATTAGAAA CCTGCTTGTC CTTGTGTCTG AAAATAAGGA GGAACACTCT CGCACCAAAT CTCGAG	60 120 180 240 300 360 420
(2) INFORMATION FOR SEQ ID NO:929:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 325 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:929:	
GAATTCGGCC AAAGAGGCCT AGGTAAATGT TAGTGGAAAA TTTTATGAGT ATATGCTGAA AGGAGAGATT AGTTCACATG AACTCAATAA TGTTCAAGAT AATGAAATGC TTAGAAAGGT TACTTTTGAT CCAGAAGTAT TTTTCAACAT ATTACTTCCT CCTATCATAT TTTATGCAGG TTATAGCCTG AAAAGGAGAC ATTTTTTCG AAATCTTGGG TCTATCCTAG CATACGCTTT TCTTGGAACA GCAATTCTT GTTTCGTTAT TGGGTCAATA ATGTATGGCT GTGTAACGCT GATGAAGGTA ACGGGACAAC TCGAG	60 120 180 240 300 325
(2) INFORMATION FOR SEQ ID NO:930:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 406 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

120

GAATTCGGCC AAAGAGGCCT ATGGACACCC TGTGCCCCAA GCCGATGGCC CCACCCAGCA GCATCAGCAC AGNTGCCCCC CTTCTCCGCA GAGCAGGCTC TCCTTTACGG GACTCTCCTC

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:930:

TTCCCTCCCA CCTGATGCGG GCACTCGCTG CCTGGTGGGC CAACTTCTCC CTGCACTCAG CTCAGAGGCA GCTCAGCTCC GTCCTGTCTG AGAAAACTG	C TCATCCCACC ( C CTTATGAATA ( A GTGCTCAGCG 1	CCAAGACCAC CGACGGCCCT CGCACTCGG	TGCACTGATG CATTGCATCC GGCTTCACAC	GCTCCAACCC ATGCAGAGAC	180 240 300 360 406
(2) INFORMATION FOR	SEQ ID NO:931:	:			
(B) TYP (C) STR	CHARACTERISTIC GTH: 246 base E: nucleic ac: ANDEDNESS: do OLOGY: linear	pairs id uble			
(ii) MOLECULE	TYPE: cDNA				
(xi) SEQUENCE	DESCRIPTION:	SEQ ID NO:	931:		
GAATTCGGCC TCATGGCCTZ CAGTCTCCTA CTGTTATGT CAGAAGGCAG ATGAAGTCC AGTGAAGGTC AGTCAGCCAZ CTCGAG	r ctccagtttt a r tgactgtcag a	AAAAATGTAA AGTAACCAAA	AATCAGTTGA ACAGACCAGA	AACACTCGAT TGAATGCAAA	60 120 180 240 246
(2) INFORMATION FOR S	SEQ ID NO:932:	•			
(B) TYP (C) STR	CHARACTERISTIC GTH: 278 base E: nucleic ac ANDEDNESS: do OLOGY: linear	pairs id uble			
(ii) MOLECULE	TYPE: cDNA				
(x1) SEQUENCE	DESCRIPTION:	SEQ ID NO:	932:		
GAATTCGGCC TTCATGGCC CTTTGCTGAT TCCTTTGTC TCCTAGGAGC AGCTCCTGA TCTGCCCCTC CTACCCCAG CCAGCTCCAC AGGCTCCAC	C ATGTGTGCTT T A GCAGCAGCAG ( I GCCCCCATCA (	IGAGCCTCTC CAGCACCAGT CCACCACAGC	TCATCTTGTC GGCAGCAGCA	TTTCCTCCTT TCAACAGGGC	60 120 180 240 278
(2) INFORMATION FOR	SEQ ID NO:933	:			
(B) TYF	CHARACTERISTIC GTH: 421 base E: nucleic ac ANDEDNESS: do OLOGY: linear	pairs id uble			
(ii) MOLECULE	TYPE: cDNA				
(xi) SEQUENCE	DESCRIPTION:	SEQ ID NO:	933:		
GAATTCGGCC GAGCATTCAC CACCGTGAGC TACTCGTCAC TACTCGTCAC TACTCGTCAC TACCCTCTCT CAGAACGGG	T TCTCCATGAT ( G AGCCACCCTC ( G TCCAGAAGGA )	CCTGTCCACG CAAGGAGATG ACAAGCACCA	GTCACCCTCA GTCAGCCACC CCAGCAGCTC	TCACTGTCTC TGACCTGGTT CCTTGTCTCT	60 120 180 240 300

	AACACGTCTA AAACCCACAG CTGTGACATG ACCCCAAAGC AGTCCAAAGT ATCCTGTGGC TCTGTGGAAT ACAGGAGAAG GGCAAGGAAG AGCTCCCGGC	36 42 42
(2) INFORM	ATION FOR SEQ ID NO:934:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 449 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:934:	
TTGCAAATTC AGACACCTGC ATAGCTCACT ATTTTGATGA ATAGCGGTGA GTCATTCTTC	AAAGAGGCCT AAAATAGCAA AGATGGAACA TGGACCTAAA GCAGTGACTA TCCATCAAAG CCTTCAGAAA AGGATTCTGT AGTTTCCCTT GAGTCCCAGA TGACCCAAAA CTGAAAACTC TAAGTCAAAC CAAAAAAAAC AAAGGATCTG CTCTGGTAAC AGTGATGGCG GAGAAGAATT TTGTGAAGAG GACAAGGAAT TAGCACAGAA GAAAGGTTTT ACAAGCAGTC TTCCATGTCT GAAGATAGTG CGACTTCTTC ATTGGGAAAG TCAGACAGAC ACGAAAGAAG GAAAGTAGTT AGTTAAGGAA CAAAAACCAC TAGAAAAAAGT GTTTCTTAAA GAAGATACAG TGGGGATACA ACTCTCGAG	60 120 180 240 300 360 420 445
(2) INFORMA	ATION FOR SEQ ID NO:935:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 421 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:935:	
CATTCTACTG AGTCATTTT AAGTTCATTT TATTTATTCT TTTTGGAAAT	AAAGAGGCCT AAAAATAGTG ATTTTTTGAC TATCTATAGA TATTAGTTGG TAAGGAAAAC TTTCTTTTCT CCTGTACTTA TTCATCGTCC CCCAGGAATC CCAAGGAGAC CTAGTTCCTT TTTGTGAGGA GTTGTTTTGA GTTCATTTTG GAAGTTTTGA GTTCATTTTA CTATAATCTG CCTAGGGTGTG ATTTTCTTTT GGTTAGGATT TGCAGAGATT TTTTTGAACC TGTGGCTTGA TGTCCATCAC TTCTCAGCCA GCATAGTATC TGCAGACTGT GTGTCTGTTC CATTTTCTCT TGTAGGACTT CATTCACAAG GATGTTAGAA CTTTTTACCA TGGCTCTCGA	60 120 180 240 300 360 420 421
(2) INFORM	ATION FOR SEQ ID NO:936:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 648 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:936:

ATAGAAATGT	CATAATTTCT	CCTTTATTCT	TGAATGATAG	TTTTGTGGGA	TATAGACTTG	120
CTGGATATAG	AATTACTGGA	TATAGAATTG	CCAGATATAA	AATTCTTGGT	TCAAAGTTTT	180
TTTTCTTTGA	GGACTTTGAA	TGTCATCCCA	CTGTCTTCTG	GCCTCCATAG	TTTCTCATAA	240
TAAATCAGCT	GTTAATCTTC	ATTAAGTTTC	CTCTGTACAC	GAAGAGTCAC	TTGTCTCTTG	300
CTGCTTTCAA	ATTTTTCTCA	TTTGCTTTGG	GTTTTCACAC	TTTAATTATA	TGCCTTTCTA	360
TGTGGATCTC	TTTGAGTTTA	TCCTGCTTGG	AGTTCATTGA	GCTTTTTGCA	TCTGTATATT	420
AATTTCTTTC	ATCAGATTTG	GAGATGTTTT	TGGCATTTAT	TTCCTCAAAG	TTCTTTCTGC	480
TTCTTTCTCT	CCTTCTCCTT	CTGGGTCACC	ACAATGCATA	TGTTGGTCTA	CTTGATGATG	540
TCTCACAGGT	TCCTTAGACT	CTGTTTACTT	TTCTTCATAT	TTTTTTTTTT	CTGTTTCTTA	600
AATTTGGATA	ATTTTGGTTG	TCTTATATTC	AAGTTTGCTG	ATCTCGAG		. 648

- (2) INFORMATION FOR SEQ ID NO:937:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 160 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:937:

GΑ	ATTCGGCC	AAAGAGGCCT	AGAGGATGGG	AAGCTTGGGG	AGAGAAGATA	CTGAAATGCT	60
AG	AAACTGAG	CCAGTAGAGG	ATGGGAAGCT	TGGGGAGAGA	GGACATGAGG	AAGGATTTCT	120
GA	ACAACAGT	GGGGAGTTCC	TCTTTAACAA	GCAGCTCGAG			160

- (2) INFORMATION FOR SEQ ID NO:938:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 399 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:938:

GAATTCGGCC	AAAGAGGCCT	AGAAAAACTC	AGGAAAGAAA	TTGCAGACTT	CGAACAACAG	60
AAAGCAAAAG	AATTAGCTCG	AATAGAAGAG	TTTAAAAAGG	AGGAGATGAG	GAAGCTACAA	120
AAGGAACGTA	AAGTTTTTGA	AAAGTATACT	ACAGCTGCAA	GAACTTTTCC	AGATAAAAAG	180
GAACGTGAAG	AAATACAGAC	TTTAAAACAG	CAAATAGCAG	ATTTACGGGA	AGATTTGAAA	240
AGAAAGGAGA	CCAAATGGTC	AAGTACACAC	AGCCGTCTCA	GAAGCCAGAT	ACAAATGTTA	300
GTCAGAGAGA	ACACAGACCT	CCGGGAAGAA	ATAAAAGTGA	TGGAAAGATT	CCGACTGGAT	360
GCCTGGAAGA	GAGCAGAAGC	CATAGAGAGC	AGCCTCGAG	•		399

- (2) INFORMATION FOR SEQ ID NO:939:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 519 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:939:

GAATTCGGGC	AAAGAGGCTA	GAAGCATCGA	AAGCGTTGGA	GAGGTGTTAC	CGGTAACGGC	60
GGCGAGAAGG	GTGTTCCCGA	ACTAGAGTGG	GGCATACATA	ATCTTGCTGC	TATGCTTCGA	120
AGCTGTAGTC	TGAATCAACC	TAAGTTTTAA	ACAGAAGGTG	AACCTCTGAG	ATAGAAAATC	180
AAGTATATTT	TAAAAGAAGG	GATGTGGGAT	CAAGGAGGAC	AGCCTTGGCA	GCAGTGGCCC	240
TTGAACCAGC	AACAATGGAT	GCAGTCATTC	CAGCACCAAC	AGGATCCAAG	CCAGATTGAT	300
TGGGCTGCAT	TGGCCCAAGC	TTGGATTGCC	CAAAGAGAAG	CTTCAGGACA	GCAAAGCATG	360
GTAGAACAAC	CACCAGGAAT	GATGCCAAAT	GGACAAGATA	TGTCTACAAT	GGAATCTGGT	420
CCAAACAATC	ATGGGAATTT	CCAAGGGGAT	TCAAACTTCA	ACAGAATGTG	GCAACCAGAA	480
TGGGGAATGC	ATCAGCAACC	CCCACACCCC	CCCCTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:940:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 268 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:940:

GAATTCGGCC	AAAGAGGCCT	AAGAAATTAT	ACCATTTTAT	GGAATGTCAA	GCTACATCAC	60
CCGAGAAGAC	CAGTACAGCA	AGCCTCCGCA	CAAAAAACTG	AAAGACCGCC	AGATCGATCG	120
CCAGAACCGC	CTCAACAGCC	CTCCTTCTTC	TATCTACAAA	AGCAGCTGCA	CAACAGTATA	180
CAATGGCTAT	GGGAAGGGCC	ATAGTGGTGG	AAGTGGCGGA	GGCGGCAGCG	GTAGTGGTCC	240
CGGAATTAAG	AAAACAGAAG	CGCTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:941:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 535 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:941:

GAATTCGGCC AAAGAGG	CCT AAGCCTCGCC TT	ACACTTAA GTGCACCC	GA TCCTGCCTCT	60
GGCATCTCAC AAACGTC	ACT CCCTGGAACA AA	TTTGTGAA GGCCTCCA	GA CCACAGTGTC	120
CTCATCTGTA AAATGGG	GGT AGTAGTAATC CT	TGCCTCAT AAAGTTCT	TG GCAAGGATTA	180
GATGAGCGAG CATGTGA	GTT TGGCCTCCGT TT	AAACACTC CATAAAGT	TT CCTTTTAGGA	240
TAACAGCAGG CCGTTTT	AGA ACCTTCCAGA GG	TTACTTAT TCAGATAT	CC TTAGGTGACG	300
ATTGGGAAGC TGCCGTT	TCT TGAGAGCCTC CT	GGGTGACA GATGGAGA	GT GGCCCTGGCG	360
TGACCCTTGA CCCTATC	CTT GAGGCTTTCC TG	CCCGTCTC CTGCCTCG	AA TGTGCTCCGC	420
AGCACATGGA TCAGGAT	GGG GAAGGGGCTG TG	TCACTGGA TACCTTCG	GC CCCTGCCCAC	480
GTCTAGGGCC TGTGAAA	ACG AGGAGGGACA GC	AAAGAAAT GGGGAAAG	GC TCGAG	535

- (2) INFORMATION FOR SEQ ID NO:942:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 316 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:942:

GAATTCGGCC	AAAGAGGCCT	AAAATTGTTA	ATTCTAGTCA	CCCTGCAGTG	CTATAGAACA	60
CTGGAACTTA	TTCCTCCTAT	ATCACCGTAT	TTTTGTATCT	ATTAACAAAC	CTCTCCATAT	120
CCTCCCTCCC	TCCTACCCTT	CCCAACCTTT	GGTAATCACT	ATTCTCCTCT	CTACTTCTAT	180
GAGATCAATG	TCTTTATTTA	CTCGAAGTAC	TCTTAAAAGT	TTAGGACTTA	AGTATTTGAA	240
GAAATTCACT	TGCTTTTTGT	TTTTATTCTA	CTCAATACTT	TTTAATATAA	AGATTTACAG	300
TCCCCCCTTA	CTCGAG					316

- (2) INFORMATION FOR SEQ ID NO:943:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 363 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:943:

GAATTCGGCC	AAAGAGGCCT	ACAAACTCAA	GATGCCCGAG	TGGATTGGAG	GCGAGAGCGA	60
GCTCAGGAAG	TTTCTAAAAC	ATCATTTGCG	AGGAAAGAAC	TGTGAACTCC	TGCTGGTGGT	120
ACCAGAAGAG	GTAGAGGCTC	ATCAGAGTTG	GAGGACCGAT	GTGTAACAGT	TCTGCCCAAC	180
CTCCCTCTCG	CCTCAGCCCC	TTCAGTCCTC	TGTGACGTGC	TGTGGCCTCT	ACAGTGGGTC	240
TGCCCTTGCC	ACTTCCCCAA	ACATCTCATC	AAGTTTTTCC	CCTTCAGATC	TGACAGTGCA	300
ATAGGACAGA	CGTGTGGACT	GTTATAAGAA	CTACTCAGTG	TTTTGTTCCT	GGGCAAACTC	360
GAG						363

- (2) INFORMATION FOR SEQ ID NO:944:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 324 base pairs
    - (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:944:

GAATTCGGCC	AAAGAGGCCT	ACTCTGACAG	TGTTTCTGAC	CTTTAGCATT	TCTTTTTGAT	60
TCTTTCTTAG	AATTCTCATC	TTCTGCTTAT	ATACCTGTCT	ATTCTTGCAT	GCTGTCTACG	120
TTTCCCATGA	GAGTCCTTAG	CACATTAATC	ATGGTTGTTT	TACATTCACA	GTCTGGTAAT	180
TCCAGCATCC	CTGCCACATC	TGAATCTAGT	TCTGATGCTT	GCCCTGTCTC	TTCAAACTCT	240
GTTTTTTTGC	CTTATAATCT	TTTGTTGAAA	GCCGAACATG	ATTCCTGTAC	TGGCTCTTCT	300
GGAGGCTTCT	GCCCTGTTCT	CGAG				324

- (2) INFORMATION FOR SEQ ID NO:945:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 712 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:945:

GAATTCGGCC	AAAGAGGCCT	ACAGATGACT	TCATTTCTCT	TGGATTCCAC	TTTCTCACGT	60
GTCAGAATGG	GAGAGGAAGG	GAGGTGTTGG	GATAAGTTTC	AGTTCCACTG	TTTGTACTTC	120
TCGTCTGGCT	AACACCCATG	TGGCAAATAG	GTTTCATCAT	TTGTTTCAGC	TTAGATTTGT	180
TGACAGCGGT	TTCCTGGAGT	GCTGTCTTGA	GAACGATTCT	GAGGAGGCTC	AGCAAGAAAG	240
AGTGTTTCAG	TTGATTGGGT	${\tt GTGTCTGTCA}$	TGGAGAAGGA	AGTAAGGAGT	GGGCAGTGCT	300
AGCAAAATTC	CCGGGGCACT	TCTGTCCATT	ATCTCAATAC	CTGGGGTTGA	CATTTCCTGT	360
CTCAGATCAG	GAGTCCTGAC	TACCCTGCCT	CTGACCACTC	GAACTGAGTG	CTGCTTAGCT	420
GTATCGTAGA	CACCGCCTGT	TTGTGAACAG	ACACCCTGCT	TCTTGATAAC	ACAAAGGCCA	480
GCAGGGTCCA	CTGCTGTGTG	GAATGGCCTT	CGGTCATTTC	TGCCCAGAGC	ATAGAGGTCA	540
TTTTCACTAA	TAACATAACT	CTCCTTTTGA	TTGAAAGTGT	TAAAATGTTC	CTCCTAAAAG	600
CACTTATTTT	TTAGGCTCGT	TCTTCAGATT	TGCCCCATAT	CCTAAGCAAA	ATGCCTTCAA	660
TATGAAGTGG	ATATTGCTTG	ACCGTAGGGA	GCTTGTCCAT	ACTGTACTCG	AG	712

- (2) INFORMATION FOR SEQ ID NO:946:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 305 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:946:

GAATTCGGCC	TTCATGGCCT	AGTCTTGAAG	GATAAGACTT	GCCCAAGTGG	ATAAGGGGCG	60
AAAGGCATCC	CAAGAGGAGA	CAGTAACGTG	TGTATAAATG	AACGAAGGCG	TGAAATAGGA	120
TGGAGTGTTT	TGAGGAACCA	CAAGTAGCCT	TCTCTGAGTA	AGAGCATAGG	TTTGTGAGGA	180
GGACCTAGTG	TTGTTTGAAA	AAAGAGAGTG	ATCAATGGAA	GATGAGATAT	CAAGACAGGA	240
GAACCAAGGA	AGAAAAAGCA	GAGGACAGCT	GGAATGAATC	AAACCGAAGA	ACCAGGATCC	300
TCGAG						305

- (2) INFORMATION FOR SEQ ID NO:947:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 321 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:947:

GGGTTTTGTT	AATGGAAAGT	TTAAGTAAAT	TATATTGTAA	TAAAAAGGTA	GATAAACCAT	60
TGTACAACAG	TATTCTAGGC	CGCCAACAAA	AGTGTGACAG	ACACACTAAA	AGCCCTCCAA	120
CTTTAACTTG	TAACGTAGCT	TCATTCTCAA	AGCTGACTCC	TTTTTTTTCT	TTTTCCTTTT	180
CTTGAGTGTA	GTACAGTTAA	AATTTCAAAC	AGCTCCTTGA	CACTGCTTTT	CATGTTCAAA	240
CCAGCCATTT	TGTTGTACTT	TGGTAAAGGA	CCTCTTCCCC	TTCCTCCCCT	ACACATACAG	300
ATACACCCAC	CATAACTCGA	G				321

- (2) INFORMATION FOR SEQ ID NO:948:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 312 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:948:

GAATTCGGCC	TTCATGGCCT	ACAAAAGGCA	ACAAACAAGA	TTAACATGGA	AAAAATATTA	60
TCACTCAATC	CAAAATAAGG	CAGAAGAAGT	GGAAAAGGGA	GATGAAGATC	AGATGGAACA	120
AAGAATATTA	CTAGAAATGA	CTATGTTTTA	TAATGCAAAA	TAGTTCAGTA	CAGGAGAAAG	180
ATACAATAAT	TTGAGTGCAT	ATGAACTTAA	AAGAGAATTT	CAAAATATAT	GAAGCAAAAA	240
TTGACAGAAC	CCAAAAGGCA	ACAAACAAGA	TTAACATGGA	ATTATAAAAA	TCACTCAATC	300
CAATATCTCG	AG					312

- (2) INFORMATION FOR SEQ ID NO:949:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 291 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:949:

GAATTCGGCC TTCATGGCC	T ATAGGCCATG	AAGGCCGGGA	GCCTCAAGAA	AAATTAGCAG	60
AGGAAAATAA TAGGTAGTT	A CTATTTAGGG	TAAACTAAAC	TGTTCTAAGG	AATAGAAAAT	120
AAAAATTCCA TGTCTTCAA	A AATAATTCTT	CCCTCTCAAT	CTCTCTGAAT	ATCTCATAAG	180
AGTATTCAGG CCACAGAAA	T AACTACCATT	TAGCCACTCA	GAGGCTTATA	GTAGTTCTAC	240
TAACTTTAAC ATTTGGCAR	C CAAAATTACT	CTAAGAATCA	TCACCCTCGA	G	291

- (2) INFORMATION FOR SEQ ID NO:950:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 240 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:950:

GAATTCGGCC	TTCATGGCCT	AGATGGGCAT	TCTGTTTATC	TTACTAGTAG	TACGCAGGGT	60
ATGTTGAAAT	CTCCAACTGT	GATGGTGGAC	CTGTCAACTT	CTCCCTGTGG	TTTTATCAGT	120
TTTTCCTGGG	TATTTTGAGG	CTATTCTGAT	AGGTACATAA	AATACAAAAA	TTGCTATATC	180
CTCCTAATTA	ACACTTATTA	TCAAATTGTT	ACTAATGCTT	TCTGTTCCTA	GGCCATGAAG	240

- (2) INFORMATION FOR SEQ ID NO:951:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 404 base pairs
      - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
      - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:951:

GAATTCGGCC	TTCATGGGCT	AGATCTGAGC	TCACTGCAAC	CTCTGCCTCC	AGGGTGCAAG	60
CCATTCTCCT	GCCTCAGCTT	CCCAAGTAGC	TGAGACTACA	GGCGTGTGCC	ACCACGTTGG	120
CTAATTTTTG	TATTTTTAGT	AGCTTTTTTT	TTTAAACCCT	GAGTGTCAGG	TGTGAGGTAG	180
TAGAAGAAAG	GTAGTGTTGT	TGACAGCTTG	TGAGTACTTA	ACTAATTCTT	GTTGCATTCA	240
CTATAATATG	GTAGTTGTGT	ATACATTTAT	AGGCAATTAG	GAATAGGGAA	CAGAATCAGC	300
AGATACTAAC	GGAGTTAGAG	ATGTTTGCTG	AAGTCATGGA	AAGCCATCAT	TACTTTTTTC	360
TTCCTTCCTC	ATAAGGCCTT	AGTGGGTGTG	GCGTTCAGCT	CGAG		404

- (2) INFORMATION FOR SEQ ID NO:952:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 382 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:952:

GAATTGGCCT TCATGGCCTA	GAAAAATCAT	GTGGGAAAAC	CACTGCTGAA	AATGGATTTA	60
AATTCAGAAC AGGCGGAACA	ACTGGAAAGA	ATCAATGATG	CTCTTTCCTG	TGAATATGAG	120
TGCCGCCGAC GAATGTTAAT	GAAACGATTA	GATGTGACTG	TACAGTCCTT	TGGATGGTCT	180
GATAGAGCAA AGGTAAAAAC	AGATGATATA	GCAAGAATTT	ATCAGCCTAA	GCGTTATGCT	240
TTGTCACCCA AGACAACGAT	TACAATGGCA	CATCTACTTG	CTGCTCGTGA	AGATCTATCC	300
AAGATCATTA GGACAAGTAG	TGGCACCAGC	CGGGAGAAGA	CCGCATGTGC	CATTAATAAG	360
GTGCTGATGG GAAGGGCTCG	AG				382

- (2) INFORMATION FOR SEQ ID NO:953:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 268 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:953:

GAATTCGGCC	TTCATGGCCT	AGTCCCTCTT	CCACTGCATT	TCGGCTTCAT	ACATGCACAT	60
GATGTCCTCC	TCCTTGCACT	CAGTGATGTC	TGGCACGCGG	CGGTACTGCC	GGTGGTAGTA	120
GTAATACCTG	TTCTTTGCGT	GCTGCCGCTC	TATAAATTCT	CTCACGAGGG	TCACGGGTCG	180
GTCCACGATG	AGGTCGAACG	CTTTCATCAT	GTAGACGATG	GGATTGGGCT	GCACCGGCGT	240
GCGGCGCGGG	GGCTCAGGCT	CGCTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:954:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 260 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:954:

TGGAATGAGG AAGTGTGAGG AGGGAATCAG TGCCTCTCGG AAGTCGTTTT AATTAGAATG TGATTTTTT TTCTTAAACG TGTCTTCATT GGCTCCCAGA TTTGCCGTAG AAACCAAGCA AACTGGGTGC TAAAACAGAA AGGCCCATAG ATTGTACTTT TTGAGCTGTT TGAATTTGTA TACCATATGC ACAACTCGAG	120 180 240 260
(2) INFORMATION FOR SEQ ID NO:955:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 129 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:955:	
GAATTCGGCC TTCATGGCCT AATCCGAGTG TTTCGCGCAC GTCCTAAGCT GACAGTCCCT CTGGACAGAG TCCCTGGAGT GGAGTCACTG CTCCTTGTCT TTTTTCATA ACATACACTC ACCCGTATG	60 120 129
(2) INFORMATION FOR SEQ ID NO:956:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 404 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:956:	
GGCTAAACAT GGAAATGAAA GACTGATACT TGCTACCACA AAAANANACT TAAGCACATA GATCATAGACA AGTATAAAGC AATTAGACAA TGAAGTCTAC AAAACAACCA GTTAACAACA CAATGAGAGT ATCAAAATCT TACATGTCAA TACTAACCAT GAATATAAAT GATCTAAGCC CCCCACTTAA AAAGCATAGA GTGGCAAACT GGATAAAGAG ATAAGACCCA ACTGTCTGCT GCCTTTGAGA GACCCACTAT GCATGTAGTG ACACCCACAA GCTGAAAGTA ATGAGATGGA GAAAGATCTA TCATGCAAAA GGAAAACAAA AAAANANACT TAAGCACATA	60 120 180 240 300 360 404
(2) INFORMATION FOR SEQ ID NO:957:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 283 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:957:	
GAATTCGGCC TTCATGGCCT AGACTCTCTT TATACAATTC ATCAAGGTTA AACAAAACAT AAAATTCCCT TAAAAATAGG GTAATAAAAT AGATGAAATT TGTATCACTC AATTTGGTGA TACTAGTAAA AACTATAGTT CATATTTATA TACAAATAAT ACAGTCTGTA AAAACAGTCT TAGAATTTAA ATAAGCTATC TAAACGTGTT AAAATTTTAA ATCAGGACCT GATTTGTTTT GCTTTCCATT AAATGTCACA TTGAATTCTA GACCTGCCTC GAG	60 120 180 240 283
410	

(2) I	NFORMATION	FOR	SEQ	ID	NO:958:
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- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:958:

CTCGAGGACC	TGGTCGTGAC	CAACTATAAG	ATGGGGGGGC	GACATTGCCA	ATGGGGTACT	60
TCGGTCCTTG	GTGGACGCAT	CTAGCTCAGG	TGTGTCAGTA	CTGAGCCTGT	GTGAGAAAGG	120
TGATGCCGTG	ATTATGCAAG	AAACAGGGAA	AATCTTCAAG	AAAGAAAAAG	AGATGAAGAA	180
ACGTATTGCT	TTTCCCACCA	GCATTTTGGT	AAATAACTGT	GTATGTCACT	TCTCCCCTTT	240
GAAGAGAGAC	CAGGATTATA	TTCTCAAGGA	AGGTGACTTG	GTAAAAATTA	GGCCTCTTTG	300
GCCGAATTC						309

- (2) INFORMATION FOR SEQ ID NO:959:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 149 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:959:

GAATTCGGCC	AAAGAGGCCT	AGATTGAATT	CTAGACCTGC	CTCGGACTAC	TGCAAGTGCT	60
TAAAGGCATT	ATTTCATAGA	CCTTACAACT	ACCCATATAA	CATTATTATC	TTCATTTTAC	120
AAATGAGGAT	AATAATGTTA	TATCTCGAG				149

- (2) INFORMATION FOR SEQ ID NO:960:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 455 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:960:

GAATTCGGCC	AAAGAGGCCT	ACACCGTAAT	ACTATAATAC	TATATAATCT	GTTTGTTAAT	60
TTTCTGAGAA	TAATAACTCA	ATGGAGTAAC	TCTTTAATAG	GCATCTTTTC	CTTATAAAAA	120
ATATTGTAGA	TTGGCTCTCT	GCAAGCTAAT	TTCTTTTATA	TGGTTAATAT	TTTAGTGTAC	180
ATTAAGAGCT	TAGAGTTCTT	TTTGTAATCA	AGCTTGCTAC	AGAAGCTGTG	CTTTATTTAT	240
TTCATAGTAA	TTTCCTCTAG	TGGGTCATTG	TATAAACCCT	GATCATTTTT	GTATGTCTAT	300
TCCTTTTCTT	GCGAAGTGGG	CAGCTTGTTT	AGCCATGGTG	TTTTGGCTTC	AATAGTGAGG	360
TCTCTATTTG	GGAATCTCTG	AATTTCACAG	GAATGAGTAG	AACTATATTT	AACAATGAAA	420
AAAATAGTAT	TAGATTTTAG	GGCAGCTGGC	TCGAG			455

- (2) INFORMATION FOR SEQ ID NO:961:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:961:

GAATTCGGCC	AAAGAGGCCT	ACCCTGTCTT	TATGCTCCAA	TGCTTCTTTC	TCCAGATATG	60
AAAGGAGATG	CTCTCTATCA	AATGGCCCTG	TGGTGGACTT	TGATGTCTGG	TTCTTCTGCC	120
GGAACCCTGC	TGGCTTTTTG	CTGTAGCTCC	ACATTCCTGT	GCATTGAGGG	GTTAACATTA	180
GGCTGGGAAG	ATGACAAAAC	TCTCGAG				207

- (2) INFORMATION FOR SEQ ID NO:962:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 247 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:962:

GAATTCGGCC	AAAGAGGCCT	ACTGTAGTAT	TTAAATATCT	GTTACAGGTT	TCCAAGGTGG	60
ACTTGAACAG	ATGGCCTTAT	ATTACCAAAA	CTTTTATATT	CTAGTTGTTT	TTGTACTTTT	120
TTTGCATACA	AGCCGAACGT	TTGTGCTTCC	CGTGCATGCA	GTCAAAGACT	CAGCACAGGT	180
TTTAGAGGAA	ATAGTCAAAC	ATGAACTAGG	AAGCCAGGTG	AGTCTCCTTT	CTCCAGTGGA	240
TCTCGAG						247

- (2) INFORMATION FOR SEQ ID NO:963:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 472 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:963:

GAATTCGGCC	AAAGAGGCCT	ACAAGAACAT	GAAACATCTG	TGGTTCTTCC	TTCTCCTGGT	60
GGCAGCTCCC	AGATGGGTCC	TGTCCCAGGT	GCAGCTGCAG	GAGTCGGGCC	CAGGACTGGT	120
GAAGCCTTCG	GAGACCCTGT	CCCTCACCTG	CGCTGTCTCT	GGTGGCTCCA	TGAATAGTCA	180
CTACTGGAGC	TGGGTCCGGC	AGCCCCCAGG	GAAGGGACTG	GAGTGGATTG	GATATATCTC	240
TGACAGGGGG	AGCACCAACT	ACAACCCCTC	CCTCAGGAGT	CAACTCACCA	TATCACTAGA	300
AACGTCCAAG	AACCAGTTCT	CCCTGAATTT	GTTCTCCGTG	ACCGCTGCGG	ACACCGCCGT	360
ATATTACTGT	TCTCGTGGGA	CATCCCCCCC	CCCCTCCTAC	TACTACTCCA	TGGACGTCTG	420
GGGCAAGGGG	ACCACGGTCA	CCGTCTCCTC	AGGGAGTGCA	TCCACCCTCG	AG	472

- (2) INFORMATION FOR SEQ ID NO:964:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 303 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:964:

GCTCGGCTCG	CTGCAACCTC	TGCCTCCCAG	GTTCGAGCGA	TCTTCCTGCC	TCGGTCTCCC	60
AGGTAGCTGG	GACTACTGGC	GTGCGCGACC	ACGCCCAGCT	AATTTTTTGT	ATTTTTAGTG	120
GAGACGGGGT	TTCACCATGT	TGGCCAGGAT	GGTCTCAATC	TCTTGACCGC	GTGATCTGCC	180
TGCCTCGGCC	TCCCAAAGTG	CTGGGATTAC	AGGCTTGAGC	CACCGCATCC	AGCCAACATT	240
TTTCAAATAG	AAAATCTGAA	GCTAAAATCA	CCCCTAAAGG	ACAAATAACA	GGACTATCTC	300
GAG						303

- (2) INFORMATION FOR SEQ ID NO:965:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 281 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:965:

GAATTCGGCC	TTCATGGCCT	ACTAGATTAT	GGATTTTTTT	ATTTCAATGG	AAGTGAAGTT	60
CAAAGATGCC	AGAGTGGTAC	AGTTCGAACA	AACTGCTTGG	ATTGTCTTGA	TAGAACAAAT	120
AGTGTGCAGG	CATTTCTTGG	CTTAGAGATG	CTAGCTAAAC	AGTTGGAAGC	TCTTGGTTTA	180
GCTGAAAAGC	CTCAGTTGGT	GACTCGCTTT	CAAGAAGTTT	TTCGGTCAAT	GTGGTCCGTG	240
AATGGTGATT	CAATCAGTAA	GATATATGCA	GGAAACTCGA	G		281

- (2) INFORMATION FOR SEQ ID NO:966:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 454 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:966:

GAATTCGGCC	TTCATGGCCT	AGACGTGATG	TGTTGAGAGA	AGAATGTTCT	AGGCAGAGGC	60
AACAGCAGAT	GCAAAGGTCT	GAAGGGGAGA	CAGACCGAGC	TAGAAAAGCA	TGGCACATCA	120
GTGATCTAAG	TTCGTGTGGT	TTCCTAAGGT	TGGAACCTAG	GGTGCAAACT	GAGGATGGGC	180
AGATGAGGTG	GAAGAGGAAG	AGCAGACCCA	GGTCACAAAG	ATCTTTTGTG	CTAAGGATTT	240
TTAAGCAGGT	AGGAGGAGAG	AGAATATGAG	CCTTGGGATT	TGAACTGCTG	TGGGTGTACA	300
GAAAAAGAGA	AACTCAACGA	GAGGTTTAGG	TTTAGGGACG	TGGTAGGCTT	TTGCAGTAAG	360
GGACAAGGAC	AGAAGGCTCA	TCTGAGGATG	GGAGGGACAC	TTTAGAGGCA	AATCCATAGG	420
ATGCAGTGGC	TGAACAGAAA	AGGTGAATCT	CGAG			454

- (2) INFORMATION FOR SEQ ID NO:967:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 322 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:967:

GAATTCGGCC TTCATGGCCT	AGTCATTTAA	TTTAACTTAG	CAAAACTCCA	ATAGTGTAAG	60
TTAACAGATT TTGGAAACTG	GTTTTAAGTA	GATGTATTAT	AACATAAAAC	AAAGCTAGCC	120
ATTATCAAGT TATTTCCTTG					180
TGAAAGCAAG AATCTTAAGT					240
CTGTATAATA CATGATGCTG	TTAGCAGCGG	AACGTATCAG	AGACACGGCA	CCAAAGTATG	300
TTACTGTCGG CGAAAACTCG	AG				322

- (2) INFORMATION FOR SEQ ID NO:968:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 478 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:968:

GAATTCGGCC	TTCATGGCCT	AGACTGCTGG	CATATCCACC	CCACCTGTGC	TGCTGCCCCC	60
GCCAATCCAT	CAGGGCAGCT	CCGACTCCTG	CAGCACCCAC	CGCCCAGGAC	GTCAGCTACT	120
CAGGTTTTCT	GGCTGCTGGG	GTTCCGCACG	AATGGGCCCT	${\tt TCTTTTGGGA}$	AAATGCCAGG	180
GAAGGGGAAC	GGCTGGGCTC	GGGCGCCACA	GCTTGTCCCT	CCAGCCAGCA	GGCACAGATG	240
TATGGCGCAG	GAGGGACAAC	TGGCCCCTGT	GGCCAGCCCC	AGAGAGACGG	GCCCTTTCTT	3 0,0
TGGGACCCTG	GCCTCAGAGG	CCTGCGTGTC	ACAGCTCAGG	GTCTGGCTGG	GCAGGGGCAA	360
AACCTGCCTT	ATTTGCCAGA	TGTCCCAGAA	GTACACAGGA	GCAGACGCAC	CACTTCGATG	420
GCTATTTTAG	GAGGCTGGTG	ACAAGCAAGG	CATGGTGGCA	GGAAGCCAGG	CCCTCGAG	478

- (2) INFORMATION FOR SEQ ID NO:969:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 484 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:969:

CTCGAGGTCC	CTGTCCTGCT	CAGTTTCTCT	TCAATGTGGA	AGTCCTGGGA	GGTCAGTCTC	60
ATGAGAATAA	${\tt GGTGCTGTAC}$	TTTCACAGCC	TTCTCAGACT	TTTCTGAGGA	TGGCCTTACA	120
CTTGCCAGCT	AGTGGAGTGA	GCAGAACTCC	TCCTGGTTTC	TGTGGCTGTT	CTCAGAATGC	180
CCTAGTTCAC	TTTCCAGTAA	TACTTTTTTG	GGAACATTTT	GTGTTTCTCA	TTTTCTCAGG	240
TCCCCCAGGC	ACACCATCTT	TCCTCTGCTT	CCTCTCACAC	AGGTGCTGAT	ACTGTGTAGG	300
TTTGGGGCTG	TTGTTCTGGC	CCACTCCCTG	ATATTTTCTG	GGTTTGTCAC	CTAGTTTTCT	360
TAAAAGTATC	ATCTACATGG	TTTTGGTTTC	ACTATCTATT	CTGTCTTTAT	TTGAACACTA	420
GGGGAAATTC	ATTATGCCAA	TCTCACACAT	TGTGTGATTC	CATTAGGCCA	TGAAGGCCGA	480
ATTC						484

- (2) INFORMATION FOR SEQ ID NO:970:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 540 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:970:

GAATTCGGCC AAAGAGGCCT	AGGCAAAATG	AAAATACTTG	TGGCATTTCT	GGTGGTGCTG	60
ACCATCTTTG GGATACAATC	TCATGGATAC	${\tt GAGGTTTTTA}$	ACATCATCAG	CCCAAGCAAC	120
AATGGTGGCA ATGTTCAGGA	GACAGTGACA	ATTGATAATG	AAAAAAATAC	CGCCATCATT	180
AACATCCATG CAGGATCATG	CTCTTCTACC	ACAATTTTTG	ACTATAAACA	TGGCTACATT	240
GCATCCAGGG TGCTCTCCCG	AAGAGCCTGC	TTTATCCTGA	AGATGGACCA	TCAGAACATC	300
CCTCCTCTGA ACAATCTCCA	ATGGTACATC	TATGAGAAAC	AGGCTCTGGA	CAACATGTTC	360
TCCAGCAAAT ACACCTGGGT	CAAGTACAAC	CCTCTGGAGT	CTCTGATCAA	AGACGTGGAT	420
TGGTTCCTGC TTGGGTCACC	CATTGAGAAA	CTCTGCAAAC	ATATCCCTTT	GTATAAGGGG	480
GAAGTGGTTG AAAACACACA	TAATGTCGGT	GCTGGAGGCT	GTGCAAAGGC	TGCACTCGAG	540

- (2) INFORMATION FOR SEQ ID NO:971:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 289 base pairs
    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double

    - (D) TOPOLOGY: linear
    - (ii) MOLECULE TYPE: cDNA
    - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:971:

GAATTCGGCC	TTCATGGCCT	AGCCAGTCTC	AGCACTTAAA	CAACCAGGTG	TTGAAGGACT	60
ATGTTCCAAA	GAACAGAAGA	GAGTATGGTT	TGCAGATGGT	ATATTGCCCA	ATGGTGAAGT	120
TGCAGATACA	ACAAAATTAT	CATCTGGAAG	TAAAAGATGT	TCTGAAGACT	TTAGTCCTCT	180
CTCACCTGAT	GTGCCTATGG	TAAGGAATTC	AAAGAATACT	TAATTGACTA	AACAAAATTT	240
TATTTCGTAG	ATAATTCCTG	GTGTGATTAT	TAGAGTGCTT	TTTCTCGAG		289

- (2) INFORMATION FOR SEQ ID NO:972:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 418 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:972: .

GAATTCGGCC	TTCATGGCCT	AGAGCTTGGG	AGGTTGAGGC	TGCAGTGAGC	TATGAGCTGC	60
ACCACTGTAC	TCCAGCCTGG	GTGACAGGGC	AAGACTCTGT	CTCAAAAAAC	AAAAACAACA	120
ACAAAAACTT	TATTCCTAAA	AAGTGCTGAC	CCAGAGATAA	GAAGCAAGCA	CATGGTTGGT	180
AAAATGACAT	CAGTGAGCTT	GCTTTATGCA	GGGTTGCCCC	AAACCTTCAA	TTTGTAAAAC	240
TCAAAATATC	TGGAAAGCTT	GGTGAGGCGA	GGCGGGACTG	TAACTCAGCA	CTCACCGCAG	300
GGTGAGACCC	TTAGGGCAGC	GGGTGCTACA	CTGAACAAAG	CGGTGAACAG	CCCCCTCGTG	360
AGAGGGGGTT	CTTGGCAGAT	GACGCCAGCA	GCTGACAAAC	AGGCAAGTGC	AACTCGAG	418

- (2) INFORMATION FOR SEQ ID NO:973:
  - (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 276 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:973:

GAATTCGGCC TTC	ATGGCCT AGATTTGTAA	AAGATTTTCC	TAGATTTACT	GTGTTCTGGA	60
TCTAGCTTGA ACG	TGAATGT TTGTATAGTA	CGTTTTCTTA	ATATTTTTTA	GTATTCATAG	120
TATATAATCA TAC	TAAACTT GAGAAACTGG	AAGAATCAAG	TCTTCCTCAG	TTCTGTTTAG	180
ACTITCTAGT TIT	TTTTAAG GATACTTCCA	TATCTTCTGT	AAGCTACACA	GTGAGCTTCA	240
TTTTTGCACA GTT.	ATAATAC ACTCTCGAAI	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:974:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 379 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:974:

GAATTCGGCC	TTCATGGCCT	AGGGTTCGAT	GATAAGCACA	GGCGGCAGCT	GGATTGCAAG	60
TGGAGTGGTA	ATGGCCAGAA	CAGCCTCTTT	CTGTTTTGCA	TTTAGTCGAG	GATCCAACTG	120
TTCATCCCAT	TGTCTGTTAG	GACTCCATGG	TATGGTGGGA	GTCATACTGA	TGTCTGGAAA	180
CAAAACCCCA	TTGTCCTTGA	TCCTGTCTAG	TGCATAGTGC	ATTTCACAGA	GGGGTAATCG	240
ATTTAATTGA	AACTGAAGTT	CAACCTGTGT	GTCACAGTCA	GGCCGAAGAT	TAAGTTCTTC	300
ACAGCATTCC	CTAGATAGCC	TTAAAAATAT	ATATTCCTTT	GTTTTTTCTT	CAATAGTAGC	360
TTCCTAGACC	TGCCTCGAG					379

- (2) INFORMATION FOR SEQ ID NO:975:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 417 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:975:

GAATTCGGCC	TTCATGGCCT	AAGAGAAAGA	GAGTGAGAGA	GAGAGAGAAA	GAGAGAGAGA	60
GATGCTGTTG	AATCAGAAAC	AGATCAACAG	CCCAAAGATT	TTCCTGTCCC	TGGAGTGCCA	120
GCCCCAGGAA	GCTCCAGGGC	TGAGTGGTCA	GGAGCCAGTT	TCTCCAGCCC	CTCCTCCCCA	180
CAACCCCTAG	TGGGGAGGGG	CAGCTGTCCA	TTTGCCCAAA	GTATTAATGC	AACTGAAGCT	240
GTGATATTTC	CAACGACTGT	AGGAGGAAAA	ATTAAGGGGA	GAGAGGAAAA	CAAAACCAAC	300
CAACCCCTAA	AATCATTTTC	TTATTGTACA	TAACGACCTC	ATTCTCCTGT	ATATGCGGAA	360
GATATAACCT	TATATTTGGT	AAGTGTTTCT	TGTGCTATTT	TATCACGCGA	CCTCGAG	417

- (2) INFORMATION FOR SEQ ID NO:976:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 154 base pairs
    - (B) TYPE: nucleic acid

(C)	STRANDEDNI	ESS:	double
(D)	TOPOLOGY:	line	ar

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:976:

GAATTCGGCC	TTCATGGCCT	ACACAGAAAA	ATTTCAACAA	TAAAAGTTCT	TAATTATGGG	60
AAATAGTTAC	ATGTGTGTTA	TATCATTTAT	GGCTCATTTT	GTATTTTTAT	TTAAAAGTAT	120
TAAAATCCCA	ACAGTAACAG	CAATACAACT	CGAG			154

- (2) INFORMATION FOR SEQ ID NO:977:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 252 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:977:

GAATTCGGCC	TTCATGGCCT	AAATTGTTCT	TTGCTCAAAT	AAACTGTTAA	ATTTATCTTG	60
GCAGACTCTA	TTTTGATCCC	CAAATTTGAT	TTAGATTTGG	GGCCATTAAA	TTTCACTATT	120
TAATAATAAC	CCTACTGGAT	GAGAATAAGT	GTTTCTCAAT	TTCTGGTGAT	ATGGTTTGGC	180
TGTGTCCCCA	CCCAGAATCT	CATCTTGAAT	TATATTCCCC	ATAATCCCCA	CGTGTCAACG	240
GCAGGACTCG	AG					252

- (2) INFORMATION FOR SEQ ID NO:978:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 251 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:978:

GAATTCGGCC	TTCATAGCCT	AGTTTAGTTC	TCAGAATTCT	TCATATATTT	TGGCAGCAGT	60
TTTTCCATCA	GATTATTTTG	TAAATATTTT	CTCCCAGTCT	GTGACTTGCT	TTTTCCATTC	120
TCTTAACAGT	GTCTTTCACA	CAACAGAAGT	TTTTAATTTT	AATGAGGCTC	AACTTAATTT	180
TTTTTTCATT	AGTAGATTGT	GCTTTTGGTT	TTGTATCTAA	GAAGCCATCA	TTGAACCCAG	240
GATCGCTCGA	G					251

- (2) INFORMATION FOR SEQ ID NO:979:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 534 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:979:

GAATTCGGCC	TTCATGGCCT	AGAAGGCTTC	TGAATAATTT	CTCAAAACTA	NCTTTCCATT	60
TNAGTACACG	ATTTGATAAA	CATAGCACAT	TAGATAGGTA	TTTAGCAATT	TCTTCTACCA	120
ACTACACTTT	GCCCTCACTA	AGGGTTAGAG	TATGATTTGA	AACAATTTCT	ACATATAAAG	180
CATCTTTAAA	TAAGTTTTGT	GTTCACTGAA	CTGAGACTTC	TTTCACTTAT	GTACCTATGG	240
AAGTTAATCT	GAGCATACAC	ATATATACAT	ACTTGCATAC	ATATGTGTAC	ATATGTTTTT	300
TAAGTAAGTN	ACTTTTACCA	TTAGAATAAA	CCTAGACACT	ACAGGGACAA	CTCTGGGGAA	360
CAGGGCGGTC	TGCCTTAACA	ACCCTTCTCT	AGGTTGAGGA	AGGCAGGTAT	AGTTCACTGA	420
AGGATGTGAT	GAGGCTGTAG	TAAGTCTTCT	CATCATCTGT	TAATCCTGCG	TTGCCTGGTC	480
TCACCACCAC	AGCTACGTGC	ACATCTGCTT	CCTCAGCAGC	ACTGGCCTCT	CGAG	534

- (2) INFORMATION FOR SEQ ID NO:980:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 223 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:980:

GCTCGAGTGT CG	TGCTATCT CTAAATTGTG	ATCACTAAGA	ACCGCTGCGG	AAACAGTAAC	60
TGTTTCTTTT AT	TTTTGACA TTTTAGTTTG	TAATTTATCC	AATTCTTTCT	TCTTTTGATA	120
AGTCTCCATT CT	CTTTACTT CACGGGTATT	TTCAAATTCA	TTAATCATTT	TATCACAGTG	180
CCACTTGTTA GA	CCCTAATG AACGATGTCA	CCCTCTTATC	AAA		223

- (2) INFORMATION FOR SEQ ID NO:981:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 481 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:981:

GAATTCGGCC	TTCATGGCCT	AATTACTTGA	CCCGTAATAG	GGTTGTGGCC	GTTTTCTGAT	60
GCCTAAGTAT	TATACAGAGC	CCACAATGGC	CAGTTTACTA	CCAGAAAGGG	CTTCAGTAAG	120
ATATTCTTGG	ACTTGATACT	TTCTTCAGAT	CCTCTTTGTG	CCAAGATAAT	TTATCCAGTC	180
ATTGGGAATA	GTAAGTTTCT	GTGTAACCCA	TCTCAATTAT	AGAAGCAAGT	TCAGCTTTAT	240
GTATTTGTAT	GGGGAGTTGA	AGATTCAGAT	AGAGGTATTA	AGATGTGTGG	CATTTACTTA	300
AACCATCACA	TTTTTTTCTT	TCTACGCCCC	CTTGCCTGTA	AAACACCTGG	GAAGTTCCAC	360
TGGTGTCATC	CATCCTGATG	CTTCAGACCA	CCCTCCCTTC	TTCACAGACC	GTGTCACTTT	420
GCCTGTGGGT	GGGGGCTAGC	CAGCCACCAC	CCTCTTTTCT	GTGCTGCCAG	CCAATCTCGA	480
G						481

- (2) INFORMATION FOR SEQ ID NO:982:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 293 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:982:

PCT/US98/06956 WO 98/45437

TCCGTGTCCC	CTCCTCCCTC	TGCCCCCAGT	GTTTCTTCTG	ATTTTTTTT	CCCCTTTCCC	60
TCCCTCCCTC	TCCGCATTCT	TCCCTTGGTT	CAGCACAGGT	AAAACGGTTC	CCCTCCCTCC	120
CTGCCTTCAT	GGATCACCAG	CTCACGTCAT	GTTGCCTTCT	CTTTTCTTTG	TGTGTGTGTT	180
TATTTAAGTT	ATTTTTCTTC	CTCCTCTCCC	TTTTCTTTTT	GGCCCTCCCT	CCCTCCCTCT	240
TCTGCCATGT	AACTGGAGGA	TGTGCTATGA	GTTTGCAAAC	AGCCGGACTC	GAG	293

- (2) INFORMATION FOR SEQ ID NO:983:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 334 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:983:

GGTGAGGATG	GTGGCTGTGG	TTGTGTTGGT	GGCTGTGATG	GTGAAGGTGG	CTGTGGTGGG	60
GATGGTGACT	CTGATGCTAA	TGTTGGTTGT	GGTGATGGAG	GCAGCTGTGG	CAAGGATGGT	120
GACTTTGGTG	GAGAAGGTGG	CCATGTTGGG	GCTAGTGGCT	GTGGTTGTGG	TGATGGCCAT	180
GGTGAGGATG	GTGTTAAAGG	TGGCTGTGAT	GAAGATGGTG	ACTGGGGTAG	AAATGGTGAC	240
TGTGATGGTA	ATGTTGGCTG	TGGTGATGAA	GGGTAGTTAT	GGTGAGGATG	ATGACTATGG	300
TGGTGAAGGG	GCCATAGTGG	CAACGGCACT	CGAG			334

- (2) INFORMATION FOR SEQ ID NO:984:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 631 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:984:

GAATTCGGCC	TTCATGGCCT	AGGGAAAGAG	TAGGGGTGGA	GGGGTAGGAG	GATTTACTCT	60
TCCAGCGAGA	GCTACGCGCA	TCCCATCCTC	CCCCTCCCCC	CTACCCGGGC	TCCGGCNTGG	120
AGGCGGGGCG	TGGCCGGCCT	GCTTTGGGAG	GGGAGGGGCT	TCCCTTACAG	TGCTGGGCTC	180
TGCCAGGACG	GCTGTGGGGT	CGCCTTACCT	CGGGGTATCC	ACTCTGCAGT	CGACCAGTTC	240
CCGCCAGGAG	CAAAGGGTAG	GAAGGAGAGC	AGGATCTGCT	GTAGGAACGC	AGCTACCGCG	300
CCACTATCAC	GAAGAAACAG	CAGGCTCGGG	GCACGAGACG	AACTGGAGAC	CGCGCTGCCT	360
AGCTGGGTAA	CCTGGGAAGC	AGAGGGTAAT	AAGTGGCGCC	TTAAGATAAC	CCTGTAGCAG	420
CAGCAGTGGC	GGCCAAAGGA	GGCTGCTCAG	GGAACAAGCG	GCTGTAGTAG	TCTGTGGGGC	480
GACTGGAGTG	ACCGAAGCCA	AGGCAGTTTA	GTGCCTCTCG	TGTTCTTATT	TTTTAACCTC	540
TGACTATGCA	ATTCTGAAAC	CTCCCCCATT	CGGGGGACCA	GACAGCCTGA	TAGACACCTT	600
CCACTCTCCT	TCCTCCCGCC	GTGGTCTCGA	G			631

- (2) INFORMATION FOR SEQ ID NO:985:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 324 base pairs
    - (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double

    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:985:

GAATTCGGCC	AAAGAGGCCT	ACTGCCTCGG	TTTCTACCTT	TGCCAAATGA	GTTGATAGAT	60
TATCGCTTTT	TTTCCAGCTG	TCATACTCTA	GGAGTCTGAA	TTGTAAAATC	AAAGAAGCAT	120
TTCCCAGAAA	AGTTTTTGTC	AAAAATTTGA	TTTACATAAC	CTCAGAAATG	TGTATTGCTT	180
TAAAAATTAT	AAAGTTCATG	GAGCATACCA	AGCAGCCTGT	ATACCATTTC	TAAACCAACT	240
ACTCCCCTGC	AAGATAGATC	TCTTTTTTAT	AGACAGAAAA	TAAATTCAAA	GAGGTTTGTT	300
ACTTGCCCAA	GGCCACCACT	CGAG				324

- (2) INFORMATION FOR SEQ ID NO:986:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 239 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:986:

GAATTCGGCT	TTCATGGCCT	AAAATGTTTT	TCAATTAAAG	ACTTAAATAT	TACACTTTTA	60
AAACTTTTTA	TTATGGAAAT	СТААААААА	TTCACCAAAT	GAGAGAGAAC	ATTACAATGA	120
ACCACCACAT	ACCCATCACC	CATTTTCAAC	AATTATCAAC	ACATGGCCTA	TCTTGTTTCC	180
TCCATACCTT	CAGACACCCT	CCGTCCACAA	ACTGGGTTAT	TCTGAAGCAA	GCCTTCGAG	239

- (2) INFORMATION FOR SEQ ID NO:987:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 695 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:987:

AAAAGTTCAG	GGACTTTGCA	CCCTGTGGGG	TACTCAGATG	TCCAGCCGCA	CTCTCTACAT	60
TAATAGTAGG	CAACTGGTGT	CCCTGCAGTG	GGGCCACCAG	GAAGTTCCGG	CCAACTTTAA	120
CTTTGCTAGT	GATGTGTNGG	ATCACTGGGC	TGACATGGAG	AAGCTGGCAA	GNGACTCCNA	180
AGCCCACCCC	TGTGGTGGGT	GAATGGGAAA	GGGAAAGAAT	TAATGTGGAA	TTTCAGAGAA	240
CTGAGTGAAA	ACAGCCAGCA	NGCAGCCAAC	TTCCTCTCGG	GAGCCTGTGG	CTTGCAGCGT	300
GGGGATCGTG	TGGCAGTGAT	GCTGCCCNGA	ANGCCTGAGT	GGTGGCTGGN	GATCCTGGGC	360
TGCATTCGAG	CAGGTCTCAT	CTTTATGCCT	GGAACCATCC	AGATGAAATC	CACAGACATA	420
CTGTATAGGT	TGCAGATGTC	TAAGGCCAAG	GCTATTGTTG	CTGGGGATGA	AGTCATCCAA	480
GAAGTGGACA	CAGTGGCATC	TGAATGTCCT	TCTCTGAGAA	TTAAGCTACT	GGTGTCTGAG	540
AAAAGCTGCG	ATGGGTGGCT	GAACTTCAAG	AAACTACTAA	ATGAGGCATC	CACCACTCAT	600
CACTGTGTGG	AGACTGGAAG	CCAGGAAGCA	TCTGCCATCT	ACTTCACTAG	TGGGACCAGT	660
GGTCTTCCCA	AGATGGCAGA	ACATTCCTAC	TCGAG			695

- (2) INFORMATION FOR SEQ ID NO:988:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 314 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:988:

GAATTCGGCC	TTCATGGCCT	ACTCAGAACA	ATCACTGCAT	ATCCCATCTT	AAAGGCAAAA	60
CCCAAACCAG	AAAAACCCCA	CTCAGGTCTT	GCTGACCCAA	CACTACAGTC	ACTGTATTTG	120
AGACCCCTTT	TTCTTGAAAA	AGGGACTTCA	CTTTTTTGAG	CAGCATTCTA	TGGTTCTTTC	180
CACACAGCAA	TTGACGCATC	TCACGGCACT	GCTCTCTGCT	GGGCAGAGAG	CAAACACAGA	240
CAGCCACCAT	CCCCATATTC	GTAGTAAGAG	AAACTCCAGA	AACGCAGCCA	CCGTCCCCCT	300
AGACCTGCCT	CGAG					314

- (2) INFORMATION FOR SEQ ID NO:989:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 687 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
    - (ii) MOLECULE TYPE: cDNA
    - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:989:

GAATTCGGCC	AAAGAGGCCT	AGGAGCTCCC	CCATGGATCA	TGGCGTTAAT	GTTTACAGGA	60
CATTTACTAT	TCTTAGCATT	ATTGATGTTT	GCTTTCTCTA	CTTTTGAGGA	ATCTGTGAGC	120
AATTATTCCG	AATGGGCAGT	TTTCACAGAT	GATATAGATC	AGTTTAAAAC	ACAGAAAGTG	180
CAAGATTTCA	GACCCAACCA	AAAGCTGAAG	AAAAGTATGC	TTCATCCAAG	TTTATATTTT	240
GATGCTGGAG	AAATCCAAGC	AATGAGACAA	AAGTCTCGTG	CAAGCCATTT	GCATCTTTTT	300
AGAGCTATCA	GAAGTGCAGT	GACAGTTATG	CTGTCCAACC	CAACATACTA	CCTACCTCCA	360
	CTGATTTTGC					420
TTAGCATTGT	ACTGTTTGTT	ATGCCCAGAA	GACAAAGTTG	CCTTTGAATT	TGTCTTGGAA	480
TATATGGACA	GGATGGTTGG	CTACAAAGAC	TGGCTAGTAG	AGAATGCACC	AGGAGATGAG	540
GTTCCAATTG	GCCATTCCTT	AACAGGTTTT	GCCACTGCCT	TTGACTTTTT	ATATAACTTA	600
TTAGATAATC	ATCGAAGACA	AAAATACCTG	GAAAAAATAT	GGGTTATTAC	TGAGGAAATG	660
TACGAGTATT	CCATGGTCCG	TCTCGAG				687

- (2) INFORMATION FOR SEQ ID NO:990:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 677 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:990:

GAATTCGGCC	AAAGAAGGCC	TAGAGCCCTT	CTGTCCCTTC	TACCATGTGT	GGATGCAGTG	60
AGAAGGCACC	GTATCTCTGA	AGCAGAGAGC	CCGCCCTGGA	CACTGGATCT	GCTGGCACCT	120
TGATCTTGGA	CTTCCCAGCC	TCTAGAACTG	TGAGAAATAA	TTTTTTTTTT	TTTACAAATT	180
ACCCAGGCTA	${\bf AGGTGTTTCA}$	TTGTAACCTG	AATGGACCAA	GCTGGTGTGA	CCCTGTTGGA	240
AAACTGGCAG	TATCTACCAA	AAGCCGAACA	TACGTATAAA	CTGATCCAGC	AGTTCCACTC	300
CTGGGTATGT	ACACCACAGA	AAGCTATGTC	CACCGAGACA	TTGGCAAGAA	TGTTTCTAAC	360
CACACGCTGA	CTGTAGCCCC	AAACCTGAAA	CAACCCAAAT	GTCCATCCAC	CAACCCAAAT	420
			CACAGGGTCG			480
AATATGAATG	AAAATATCGC	TATGCACAGC	AACATGGATA	AATTTCACAG	ACATGAGGTC	540
AAGCAAAAGA	GGTCAGAGTC	CTCATCATCA	AGAGAGAATT	CATTGTATGA	TTCTCTTCCT	600
ACAAAAAGTA	CAGAAATAAG	CAAAACTGAT	CCATGGTGTT	AGAAGCCAGG	GGAACAGTTA	660

(A) LENGTH: 445 base pairs(B) TYPE: nucleic acid

677

ACAAGGGAGC ACTCGAG

(2) INFORMATION FOR SEQ ID NO:991:

(i) SEQUENCE CHARACTERISTICS:

(C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:991: GAATTCGGCC AAAGAGGCCT AAGAAGCTGC TTCCTCCTGG GAACAACCGC CTCCCGCTCC 60 TAGCAGGTTG CTACTGCCCC GAACCCGCGC TGCAGGGAAC AGCGGGGCAA ACAAAACCAA 120 TAGAGCCATG GCGACTCCCT CTGCTGCCTT CGAGGCCCTT ATGAATGGTG TGACAAGCTG 180 GGATGTACCC GAAGATGCTG TTCCATGTGA ACTGCTTCTT ATTGGAGAGG CTTCATTTCC 240 TGTGATGGTG AATGACATGG GCCAGGTCCT CATTGCTGCC TCCTCCTATG GCCGTGGCCG 300 CCTGGTGGTC GTGTCCCATG AGGACTACTT GGTGGAAGCC CAGCTCACGC CCTTTCTCCT 360 GAACGCAGTG GGGTGGCTTT GCTCTTCCCC TGGGGCTCCC ATTGGTGTAC ACCCATCCCT 420 GGCACCTTTG GCCAAAATCC TCGAG 445 (2) INFORMATION FOR SEQ ID NO:992: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 392 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:992: GAATTCGGCC TTCATGGCCT ACTGTGATTT AAAATCTTGC TGTGTGGCTT GGGTTGTTTG TGTTGGTTCC AAACCCTGAA TCTTTTGGGG TCTTCAATTT GTGGGCATGT CAGTGGAAAT 120 TCTAAGCTTT GTTTAATGGT GTGTGTGTGT CTGTCTGTCT CTGTGTGAGT GTGTTTAGAA 180 ATTGGCTTCT CTGGGTTCCT CGCTCGTCTT CTGGAAGGTG GGGTTATAGA CATGCTGGTG 240 AATTCTGAAT GTTTTATAAA TTAGACTATT AACGGAGTTA AATTGAAGAA ACCTTCTGTC 300 ATAAGACCTT CCAGGAATTC CATTCCAAAT GAGGAAATGC ATAAAGACTT GTCCACTTGG 360 CAAACATTGG GTGTTTGGGA GGTGGACTCG AG 392 (2) INFORMATION FOR SEQ ID NO:993: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 359 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:993: GAATTCGGCC TTCATGGCCT AGGCGGCTCC CTTGGTCCTG GTGCTGGTGG TGGCTGTGAC 60 AGTGCGGGCG GCCTTGTTCC GCTCCAGTCT GGCCGAGTTC ATTTCCGAGC GGGTGGAGGT 120 GGTGTCCCCA CTGAGCTCTT GGAAGAGAGT GGTTGAAGGC CTTTCACTGT TGGACTTGGG 180 AGTATCTCCG TATTCTGGAG CAGTATTTCA TGAAACTCCA TTAATAATAT ACCTCTTTCA 240 422

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	GACTATGCTG AATTGGTGTT TATGATAACT GATGCACTCA C GCAATCCAGG ACTTCAATAA AGTTGTGTTT AAAAAAGCAGA A	
(2) INFORMA	ATION FOR SEQ ID NO:994;	ű
(i) !	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 115 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:994:	
	AAAGAGGCCT AGACTGTCAG CTGTGAGTGG CCAGTACAAC A GTCATTCTGA TGTCTTGCAA CATATCATCG TGTTTGATTC T	
(2) INFORMA	ATION FOR SEQ ID NO:995:	
(i) s	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 633 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:995:	
CCTCTCCTGC CTGGCCCCGC TCACCCTTGA GGAGCCAAGA CCTTCTGGTC CGCTGGCCTC CAGCTCATGG CAACACCGCC AATGTCGATG	AAAGAGGCCT AGTGGAGACA AAAGCATGTG ATCCCAATTT GATTCAAACA CCTTCACTCA GTGTCAGCCA CAGCGGCCAC CAGCGACAGC GAACAGTCTG GAGATGCAAG GTCAGGGTGG AAGAAAAGGAC AGCAACTCCC TAGGGCAGCG AGGATAAAGC TCTGCCTCC CAACGGCGAA ACTACAAGACTG CACAGCCCCC GGGAAGATGT TGAACATGGC AGGAAGAGGAA ACTTCAGCATC CCTCTGTGGGT TGCCCTCCAG CTTCTGGTGG TAGTCAAAGG TGTTCCTCCT CATCCACGGT GGCCATGGAG CGCTCCTTGT TGGCTCTCTC CCTCCAGGAT GGCCATGGAG CGCTCCTTGT TAGTCAAAGG TGTTCCTCCT CATCCACGGT GGCCATGGAG CGCTCCTTGT TAGTCAAAGG TGTTCCTCCT CCTCCAGGAT GGCCATGCAG CAATACTCGC CAATACTCAATACTCGC CAATACTCGC CAATACTCAATACTCGC CAATACTCGC CAATACTCGC CAATACTCGC CAATACTCGC CAATACTCGC CAATACTCGC CAATACTCAATACTCGC CAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAATACTCAA	ACATAGCAG 120 AGGCCTGGT 180 AGGCCTGGT 360 AGGTTCCTTT 300 AGGGTCGAAT 360 ATTGCACTTT 420 AAGCCTGTC 480 AGATCTTGTC 540
(2) INFORMA	ATION FOR SEQ ID NO:996:	
(i) :	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 462 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:996:	
TCTGGCATCT ATGACAAAAA CCAGACATGT	AAAGAGGCCT AGTTGATTCT CAGTTCATGG TGGAGTCATT C TGGCAGCCCT GAGTGCCATG ATCTCTCTAG AAATTCCGCA A TGGATCTGCT GAGTAAAAAA GCAAAAAAGG AAATTGAGAA A ATTCTTTATT AGAAGATTCT ACAAGTGACT TAAGAAGCAA A AAGCTATATG TGGACTGATT GATGACTACA GCATGGTTCG A	AGTCAACATC 120 ATTTTTAGAT 180 AAAATTCAAG 240

TACGATCAGT CAATATGGAG ATGTTTGACG	AAGACCTAGA	ATTTAAAGAA	CCAAAGGAAC	GTGAAGATGA		360 420 462	
					•		
(2) INFORMA	TION FOR SE	Q ID NO:997	7:				
(i) S	SEQUENCE CH	ARACTERISTI	CS:				
	(A) LENGTH: 548 base pairs						
	(B) TYPE	: nucleic a	cid				

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:997:

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

GAATTCGGCC AAAGAGGCC	r agctggtaac	ACATGTGAAC	TCAGGTAAAG	TCATCGAGCA	60
TTTTACTGAC TCTATTCCT	CAATAAAGTAC	TGGGAAAAAA	CTCATAAGAA	TGACAAAAAC	120
AACATACTCA GGTATGCGA	G CAGAAGCCTC	TGACACAGCT	TGTCTTCGGG	GCTTAACTAA	180
ATGATCTATT TTAATGAGGG	AATCCGTGGA	AAGGCATGCG	TTTTCAGGCT	CATTTTCTGC	240
TTCGATGCTT TGTCCAGAG	A GTTGGAATCT	CAACGTGTGT	TTCATGTGAG	GCTCCTTAAG	300
AGGGTGACAT TCAACATCC	C AAAACTGGGC	ATAATCCCCC	CTACCTCTGG	GCAAAAATGT	360
GATGGAGACT TTTTGGATC	CATGGCTTTC	CAGCAGACCA	GAAATAGGAG	AACATCTGAA	420
TGCTGCATAG GTAGCTCTA	AAACATCTCC	ACTTTCATCA	ACTCCCTTGA	CATAAGGTGG	480
CACCACAGAC GTGAAATGG	ATCTGTCATC	TTTAGCGCCA	CCTTATGTCA	AGGGAGTTGA	540
TTCTCGAG					548

- (2) INFORMATION FOR SEQ ID NO:998:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 572 base pairs
    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double

    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:998:

GAATTCGGCC A	AAGAGGCCT	AGTTTCCCTT	TCTGTATTTT	ACTACTAAAT	TAGAAAGCAC	60
TGGTTATGTA A	TAAGTTACT	ACATTGCTTT	GGTTGAGTAA	AAACAAGAGT	ATATATTTTT	120
CTTGTTTCTT A	TTTNCTAAA	CCCTTAACTC	CTGCTGAGGT	CATAACAACC	TCAGTCTAAG	180
CTCTGTGTCC A	TCATACTGT	TAACTTAAAC	AAATGGGTGG	TGGGGGTGGG	AAGGGTAATA	240
CAGTCCTGCC A	TTGCCTACC	AGTAGGAGAG	TCCAAACAGA	ACACTCTTTT	GAGTAGCAAT	300
TATTTAATTT G	CCCAGTCAA	GGCACCGTGT	TTATATACTA	TTTCACATTG	AATTTGATTA	360
TGCCCTACAG A	CCTGGCTGG	TCAAGGATTT	GATATACACA	TATTGGCTTG	GGATTCGAGC	420
TTTCTTTTTT A	AATAAATTT	TATATTAAA	ATATATTATA	TATATACATA	TATACATAGC	480
TATATCTGTA T	ATATATTGG	GTATGTTTTA	AGGATTTTTT	CGCATGAGCG	CAGCTGTTGC	540
GATAAATTGA C	CGATTGGGA	GGTATTCTCG	AG			572

- (2) INFORMATION FOR SEQ ID NO:999:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 629 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

PCT/US98/06956 WO 98/45437

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:999:

GAATTCGGCC	AAAGAGGCCT	AGAGGGGAGC	ACGTCTTTTC	CTTGAGTGTA	ATTCACTAAT	60
GACTGTGGTT	CCAAGGAGGT	GCGACCTTTA	AAGGGAATTG	GCCCTTCTTT	GAAGGCAGGT	120
GAGAATCTAG	TCTCAGTGAC	AACCCAGCCT	GATTTGGAAG	GGGGGAGTCA	TAAGGGTTTT	180
CGCCCAGCAC	ACCAGGGTTG	CAGCCTGCGC	AAGACCTTCC	ATAGCTATTT	CTGCCGGCTT	240
GCTTCCTTCC	CTTCCCAGCC	ACGATGAGGC	AGCTGAGGGT	TGCCACGGAA	ACCGGCTCTG	300
TCCTCCCACT	GGAGGCTGCC	AGCTCTGATT	TCCTGCAGAG	TTAAGAAGGA	GGCGGCAGTG	360
GGGGTCACCC	AGGCGTGAAG	ATGGGTTTCC	CTGGGGATAT	CCTGCCTCCT	GCCAATCACA	420
GCGTCTCTCT	GGGAATCCTG	GGGGTGCCTG	GAGGCTGAGG	CCCAGGGAAG	CCCCCAAACC	480
CCAGTGCTGC	TCTGAGAAGA	GACTAGCCTC	TGGGACATTC	AGAGGTCTGG	GGTTCTTTTA	540
TCTCCCTCCA	GCTAAAGCTA	GAGGGACCTC	ATTATGTGTC	TTACAAGATG	TACCCTAAAC	600
CGTCGATTGA	ATTCTAGACC	CGCCTCGAG				629

## (2) INFORMATION FOR SEQ ID NO:1000:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 568 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1000:

GAATTCGGCC	AAAGAGGCCT	ACCTGTATGC	TATTAACACT	CACCACAGCA	GAGAGCTGAG	60
GATTGTGGTT	GCAATTCGGA	ATAAACTGCT	TCTGATCACA	AGAAAACACA	ACAAGCCAAG	120
CGGGGTCACC	AGCACCTCAT	TGTTATCTCC	CCTGTCTGAG	TCACCTGTTG	AAGAATTCCA	180
GTACATCAGG	GAGATCTGTC	TGTCTGACTC	TCCCATGGTG	ANGACCTTAG	TGGATGGGCC	240
AGCTGAAGAG	AGTGACAATC	TCATCTGTGT	GGCTTATCGA	CACCAATTTG	ATGTGGTGAA	300
TGAGAGCACA	GGAGAAGCCT	TCAGGCTGCA	CCACGTGGAG	GCCAACAGGG	TTAATTTTGT	360
TGCAGCTATT	GATGTGTACG	AAGATGGAGA	AGCTGGTTTG	CTGTTGTGTT	ACAACTACAG	420
TTGCATCTAT	AAAAAGGTTT	GCCCCTTTAA	TGGTGGCTCT	TTTTTGGTTC	AACCTTCTGC	480
GTCAGATTTC	CAGTTCTGTT	GGAACCAGGC	TCCCTATGCA	ATTGTCTGTG	CTTTCCCGTA	540
TCTCCTGGCC	TTCACCACCG	AACTCGAG				568

## (2) INFORMATION FOR SEQ ID NO:1001:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 543 base pairs

  - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

# (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1001:

GAATTCGGCC	AAAGAGGCCT	AGTAATACTT	AAAGTGCAAT	TGTTCCAAGG	CTTTTGTTTC	60
CATCATCACA	AATATTATAA	AGAAAGAGCT	ATGTTTAGGG	TGAAGAAGAT	ATGGCACAAG	120
TAATATGTAA	AGAACTTATG	ACTTTCGCAT	CCTCTAGCAA	ACAGTAAGCT	GCCTGTACAG	180
CTGCACACAG	ACGGACTTTA	CACAACAAAC	TCTGGAACTT	CATCATGAGT	GAGATCCAGA	240
GAAAAGTATT	TGCTGGTTCT	TTTGACTGGA	AAAGCATCTT	GGATGTTGAT	GCACTGCTGG	300
GCCAAGCAAC	TGTTGCAATA	GAGGCCTTCC	TCATCCAGTT	CATGGCCACA	TCCAAAGGTG	360
TAACTCTGAG	CAGTGTCCTG	ACACAGACCT	GCAATGCGCA	GGAAGTCTTT	CTGGTAAAGT	420
CTGATGTCAT	CGAGGCTCAA	GCTGTGTCGA	TCAGTGGAGG	TCTTTGGTTT	CCGACATATA	480
GTCTGTGGAA	GAGAATCAGT	ACTCTGGCCA	CGAAGCTTAA	CAACTGTTTC	TGAAGAGCTC	540
GAG						543

- (2) INFORMATION FOR SEQ ID NO:1002:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 592 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1002:

GAATTCGGCC	AAAGAGGCCT	AATTCCACTT	ACGAATTAAC	ACTGTGTACA	TGGCACCTTT	60
GGGCCCATCT	TGCCTTGAAA	GTCCCTGTTG	GATGGAACAG	TGGCATTTTC	CTTCCTTTTC	120
TCAGGACTGC	AAACAGACCT	AATATTTGGC	CTTGCCCTTG	CCTGGGAAGC	TGCTGCTGAG	180
TCTTGTCTCA	GCCGGGCTGT	GCATTCCGAG	CGGCTGCCCT	GCCCTGCGCT	CAGCAGCTGG	240
AATCAATCTG	CCCACCTCCT	TAAGAAGCCA	CTTCATCAGC	GGTCACCCGG	CAGCTGCTCG	300
CCTCCCAGGG	CTGCCGGGCT	AGGGCTTTAT	CGCATTTTTG	AAATTTCAGA	TTTCTGTGTC	360
TGGGCTATGC	CCCTCGAACA	GTAACAGCAC	CGCTTTGCAG	CAGGGAGGAG	ATTTCACCAG	420
GATATGGAGG	GGACAGGAGA	AAAGCCCTCC	TTCCCAGAGT	CCACTGTCAT	TCAGGATTTG	480
CTCTCAAAGA	GGCAAGAAAT	CTCTAAGAAT	GAAAGGAGGT	GTTTTGTTGT	TGTTGTTGTT	540
TTTTGTATGT	ACTGGGAGGA	AATGGCTAAT	CTTGGGTATG	CACACGCTCG	AG	592

- (2) INFORMATION FOR SEQ ID NO:1003:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 584 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1003:

GAATTCGGCC	AAAGAGGCCT	AGGCTCCGTC	TGTTGGGGGG	CGAACACGCC	GCGGTCCTCG	60
TCGTGTGAAG	TAAGAACTCT	GCTAGAGAGG	AAATGGCTGC	TTCATCATCA	TCCTCCTCAG	120
CTGGTGGGGT	CAGTGGAAGT	TCTGTCACTG	GATCTGGTTT	CAGTGTCTCA	GACCTTGCCC	180
CACCACGGAA	AGCCCTTTTC	ACCTACCCCA	AAGGAGCTGG	AGAGATGTTA	GAAGATGGCT	240
CTGAGAGATC	NTCTGCGAAT	CTGTTTTTAG	CTATCAAGTG	GCATCCACGC	TTAAACAGGT	300
GAAACATGAT	CAGCAAGTTG	CTCGGATGGA	AAAACTAGCT	GGTTTGGTAG	AAGAGCTGGA	360
GGCTGACGAG	TGGCGGTTTA	AGCCCATCGA	GCAGCTGCTG	GGATTCACCC	CCTCTTCAGG	420
TTGATACTGC	CTGGATGGTC	ACCTCTGGTG	CGCAGCAAGT	GCAAAGCCAG	TGGGGGACTT	480
TCTCACAGCT	TACATAGCCA	TCCAGAGATC	CACAGCTACG	TCACTGAATT	GTTAATGCAC	540
ATTTGTACTT	GGTTTCTCTG	TATCTATTCA	CAGGCGAACT	CGAG		584

- (2) INFORMATION FOR SEQ ID NO:1004:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 440 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1004:

GAATTCGGCC TTCATGGCCT ACTTTCTCAT TCCCTAAGTC ATTAGAAAGC ACCAGTTCTA

ACTCCAAATG	ATGACATGGT	CTTATTTTAT	CTATTAACCA	TAAGCTTACA	GATTCTAGTG	120
AAGAAAAAAC '	TTTAGGAGGC	TACATGGTCT	ATTGGAGAGT	GTAGGCTCTG	CAGTCAGAAG	180
ATCCCTACCC A	AGGCTTCTGT	CTTTCTCAGT	AAGACTTGGG	ACCACAGCAA	GGTCCGCAAT	240
CTCCTGAGGC '	TCTGTTTTCT	ATGGTTGGGA	TAACATGGTA	AGTTATTTTC	TTCTAAGTAG	300
TCACACATGG	AAATCTTATC	TAAAATTTTA	TACCATTAAC	TTTTATTTCA	CTTATTAACT	360
CATACCATTA :	ATACTTTACT	TTAGCTATGT	TTGGTATGCA	TGAGTTGATG	AGTGATTAGA	420
GTACTATGAG (	CGATCTCGAG					440

- (2) INFORMATION FOR SEQ ID NO:1005:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 426 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1005:

GAATTCGGCC	TTCATGGCCT	ACTCAGTTGC	AGATTCTGGC	CAACATGGAC	AGCCAGCTAA	60
AAGAGCTACA	GAGTCAGCAT	ACCCATTGTG	CCCAGGACCT	GGCTATGAAG	GATGAGTTAC	120
TCTGCCAGCT	TACCCAGAGC	AATGAGGAGC	AGGCTGCTCA	ATGGCAAAAG	GAAGAGATGG	180
CACTAAAACA	CATGCAGGCA	GAACTGCAGC	AGCAACAAGC	TGTCCTGGCC	AAAGAGGTGC	240
GGGACCTGAA	AGAGACCTTG	GAGTTTGCAG	ACCAGGAGAA	TCAGGTTGCT	CACCTGGAGC	300
TGGGTCAGGT	TGAGTGTCAA	TTGAAAACCA	CACTGGAAGT	GCTCCGGGAG	CGCAGCTTGC	360
AGTGTGAGAA	CCTCAAGGAC	ACTGTAGAGA	ACCTAACGGC	TAAACTGGCC	AGCACCATAG	420
CTCGAG						426

- (2) INFORMATION FOR SEQ ID NO:1006:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 402 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1006:

GAATTCGGCC	TTCATGGCCT	AGAGTAGCCA	GGGAGCTGGA	AGTTCCACAG	ATTGGTTTTA	60
ATAAACAAAC	TCCCTCAATG	ATGAGTGGTC	TTTTGAAGAG	CATGGTTAGA	ACTTGGGATT	120
GTGCTTCTCA	TGACTACAAA	TGTACTTGTA	GCTTAGGTGC	AAAAGGGTAG	GTCAGTGGGT	180
AGCTAACTAC	TGAGGATTGA	TTTTCCTGAC	GCTGGTGTTT	AAGTGTCACC	CAGAACTGGC	240
ATATAAAGTG	GCTCATTCAC	CCAAGTATCT	TCCTTTCCTT	TTTACAAAAT	CCTTGGCTGT	300
TGTGGGGCCT	ACATCTCTTC	ATGATTATTA	TTGCATCTGG	TGTCATGTTT	TTCCAGCTGG	360
TGTACTGCTT	CCCTGTAGGC	TTCTTGATGT	TCACTCCTCG	AG		402

- (2) INFORMATION FOR SEQ ID NO:1007:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 456 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1007:

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GAATTCGGCC TTCATGGCCT ACTGGTGCCA CGGGAGGCAG ACACCAAGTT CTGGGGTCTC 60
CAGCTGCAGT GGGTGGCCG CAATTGCTTC TCTCTGTCCA GACTAATGAG AACATGGAGA 120
TCACCAGTGC ACTGCAGTTG GAATAGCACG TAAAGAGGGA GCTGGGAAAG AAGCTGGGCA 180
AGCTAAAGGA CATGGTAAC CTGCCCCATC CAAGAAGAGC TGGAAGGCGG GCACCAGCCT 240
CTGGGGAGGG GAGGTGTGAA GCCAGAGCA GCTCCAGCCT GGGGGACAGG TGACCCCAGC 300
ACCCTCCAGG GCAGTCCTGT GACTGTTCT TGCCCAGCT GCGGGACAGG TTAAGTGGTGG 360
GTTCGTTCTT CCTAGGTCTG GACATCATCA TCCCAGCTG AGTCATGAG CCTCCCAAAC 420
ATAGGGAAAG AGATGGTGGT ATAAAGAGGCT CTCGAG
```

- (2) INFORMATION FOR SEQ ID NO:1008:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 564 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1008:

GAATTCGGCC	AAAGAGGCCT	AGGATGGCTG	TGTTTGACGG	GTGTTGCTCG	TGACAGTTGG	60
GGTCCTCCTC	AGCATCAGTC	TTGACATGGC	TGCAACTGGG	GGGGTCCTCG	GGATCCTCCC	120
GGAATCTCTT	CCTCAGCATT	CGCTCATGAT	AAGGTTTCAG	GTGTCTTGAT	GGTTCAGTCC	180
TGGAGAAACA	TAAGCATAAC	CTCTACCCCA	AGTTATTATT	TTACCTATTT	CCCAACTTTC	240
TGTTATCAGG	TCTCTCCACC	AAACCAGTTG	TTCTGCTTCT	GTCTTTGCAG	CACCAMOLIC	300
TAGATGCTGT	TCAGCTGCTG	ATAAGATCCG	GCCTTTAGGC	AGGCTCAAAA	AATTTAAACT	360
TAATAATGCG	ATTCAATTGC	TTATGGGGTG	TCCTCTACTA	CCTGTTTTCC	UNITINAMOI	
TCTGCAACTG	CTGTTTCAGG	GAGAGATTCA	TTCTTTTCCA	TATGGCNTGT	CCCITIIGCI	420
TATATCCCAT	ATCACTAATC	Original variation	TICITICCAC	TAIGGCNIGI	CCTTCAGAAT	480
CACAAMMAGG	TI CAGIANIG	IGITIAATAT	TCCGTATAGA	GAAAAATTTA	GCTAGAGCTT	540
GAGAATTAGG	TTCCAATCCT	CGAG				564

- (2) INFORMATION FOR SEQ ID NO:1009:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 661 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1009:

```
GAATTCGGCC AAAGAGGCCT AGAAAAAGAT GTCATTCCGT AAAGTAAACA TCATCATCTT
GGTCCTGGCT GTTGCTCTCT TCTTACTGGT TTTGCACCAT AACTTCCTCA GCTTGAGCAG
                                                                      120
TTTGTTAAGG AATGAGGTTA CAGATTCAGG AATTGTAGGG CCTCAACCTA TAGACTTTGT
                                                                      180
CCCAAATGCT CTCCGACATG CAGTAGATGG GAGACAAGAG GAGATTCCTG TGGTCATCGC
TGCATCTGAA GACAGGCTTG GGGGGGCCAT TGCAGCTATA AACAGCATTC AGCACAACAC
                                                                      300
TCGCTCCAAT GTGATTTTCT ACATTGTTAC TCTCAACAAT ACAGCAGACC ATCTCCGGTC
                                                                      360
CTGGCTCAAC AGTGATTCCC TGAAAAGCAT CAGATACAAA ATTGTCAATT TTGACCCTAA
                                                                      420
ACTITIGGAA GGAAAAGTAA AGGAGGATCC TGACCAGGGG GAATCCATGA AACCITIAAC
                                                                      480
CTTTGCAAGG TTCTACTTGC CAATTCTGGT TCCCAGCGCA AAGAAGGCCA TATACATGGA
                                                                      540
TGATGATGTA ATTGTGCAAG GTGATATTCT TGCCCTTTAC AATACAGCAC TGAAGCCAGG
                                                                      600
ACATGCAGCT GCATTTTCAG AAGATTGTGA TTCAGCCTCT ACTAAAGTTG TCGATCTCGA
                                                                      660
                                                                      661
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(2) INFORMATION FOR SEQ ID NO:1010:

WO 98/45437

	PCT/US98/06956
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 316 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1010:	
GAATTCGGCC TTCATGGCCT AGGAAAGATT TGACTGCTTC TCTCATGCAG CAAAGGCACG TGCAGAGGGA AGTAGGGGTA GAGAGAGGCA AGTTAGCTTC ATTTGCACCC AGTTCTGTTC TACTCAGCCT GACGTTTTAT CATCTTTTG TGAAGTGGTG TGGAACACAT CAGAGGGTGA AGCCGAGCAA ATCTGAAAGA TTTCATATGA TATCCTATGT GTGCTTTCCC CTTCCTTCTT AGGAGCTGGA TTGATGTCCA CTCGAG	AGAGAGATTT 12 AAAAGTGGCG 18 GAGCAGAGGA 24
(2) INFORMATION FOR SEQ ID NO:1011;	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 244 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1011:	
GAATTCGGCC TTCATGGCCT AGAAACATGC TAGACATTTT GAAGAACCAG AGTGTAGCCA ACAGTGAGGC AGGCAAAGGT GAGTAAGGTA GATTAGTTCA CATAACATTA TTTAATCCAT TGTGGGCCAC ATTGCACTAT GATAACACTA GAGTCTCACC ATTGTTTAAG ATGTTTAAAT TTTTTAATAC GAATATATTC	GGGAAGAAAA 12 TCATGTCATA 18
(2) INFORMATION FOR SEQ ID NO:1012:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 355 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1012:

GAATTCGGCC	TTCATGGCCT	AGCACTTCCC	GAGACTCTCT	AGCCTTGGAT	AAAGAGAGAA	60
TGGATAAAGA	TCTGGGATCT	GTGCAGGGAT	TTGAAGATAC	AAATAAATCC	GAGAGAACTG	120
AGAGTCTGGA	AGGAGATGAC	GAGTCCAAGT	TAGATGATGC	ACATTCATTA	GGCTCTGGTG	180
CTGGAGAAGG	ATACGAGCCA	ATCAGTGATG	ACGAACTAGA	TGAAATTCTG	GCAGGTGATG	240
CAGAAAAGAG	GGAGGACCAA	CAGGATGAGG	AGAAGATGCC	AGATCCCTTA	GATGTGATAG	300
ATGTGGATTG	GTCTGGTCTT	ATGCCAAAGC	ATCCAAAAGA	ACAACGAGGC	TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1013:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 351 base pairs
    (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1013:

GAATTCGGCC	TTCATGGCCT	ACAGCCTAAA	TGTTTTATTT	CCTGAGAGGC	TGGAATCTGT	60
ATTTGTGGTA	TCAATCAGTC	AACTGAAATT	TATTAAATGC	CTGCTGTGAG	CAAGGCCTAA	120
TGCTGAGGGA	TGTAAAGAAG	AGTGAGAAGC	TAGTCTGGTT	GGGGTNATAT	GACATGGCAA	180
GTCATAGAAT	GAAGAAGCGT	ATTCCTTGTC	ATATGAAAGC	TGCAGATTAG	TGTGGTTCTA	240
AGTAGAGGCC	AGGGTCACTG	GAGTCTAGGA	TTGCAGGGTT	GGCTGGCTTC	CCAGAGGCTA	300
AGAATTTAAT	TTGGATCTTG	AAGATCTGGT	CCAATTCCAA	CANGACTCGA	G	351

- (2) INFORMATION FOR SEQ ID NO:1014:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 393 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1014:

GAATTCGGCC	TTCATGGCCT	AGGCCTTGTA	TTTTTTTTTA	TTTTCTGCTA	AATTAGAAAG	60
AAATTTGCTG	TTTCAAATAT	ACTCAAGCTG	TTCAGTTCTT	CAACAAAAAG	TAGGTGACTG	120
AAAACTGTAT	GTTTAACTAT	GCTTAAGTTA	ATATTTATAG	TAATGATAGA	AGCCATTTTA	180
TTGGCAATAT	ATCACTTCCT	GATTTCCACA	CCAGGCATTC	CCACATGCAC	AAACAGGTGT	240
GTGGGAGGAA	GGGAAATGGG	CAAAAATGAT	TTCCTTCAAG	AGGCTACTGA	GAATGAAAAC	300
TCAAAATCTG	CACAAATAGG	GGTGGTGGAA	GGAGAGAAAG	AAAACTCCAT	GCCAGAAATA	360
ACATGCTTAG	CAGAGAGAGA	GAGAGATCTC	GAG			393

- (2) INFORMATION FOR SEQ ID NO:1015:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 262 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1015:

GAATTCGGCC TTCATGGCCT	AACTCAGTTG	GCTTCTAATT	TGCGTAACAA	GATTAAGGTA	60
GTATTTTGT ACTATTATTG	GAAGCATGCC	TTCCCTTTTT	CACATTATTA	AATTGTATTT	120
ATATTTGTGC AATTTTAAAC	TATGTTTTCA	AATAAACTTT	GTCTGCGGCT	TCGAGGTCTT	180
TTCAGGAATC TTTCAAAATG	GGATTTGGGG	ATCAGAACTC	CTTCTGATCA	AATGGAATCC	240
AATTTGTACT ACTGGTCTCG	AG				262

- (2) INFORMATION FOR SEQ ID NO:1016:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 304 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1016:

CAGAATGGGA	CTCCAAGCCT	GNCTCCTAGG	GCTCTTTGCC	CTCATCCTCT	CTGGCAAATG	60
CAGTTACAGC	CCGGAGCCCG	ACCAGCGGAG	GACGCTGCCC	CCAGGCTGGG	TGTCCCTGGG	120
CCGTGCGGAC	CCTGAGGAAG	AGCTGAGTCT	CACCTTTGCC	CTGAGACAGC	AGAATGTGGA	180
AAGACTCTCG	GAGCTGGTGC	AGGCTGTGTC	GGATCCCAGC	TCTCCTCAAT	ACGGAAAATA	240
CCTGACCCTA	GAGAATGTGG	CTGATCTGGT	GAGGCCATCC	CCACTGACCC	TCCACACGCT	300
CGAG						304

- (2) INFORMATION FOR SEQ ID NO:1017:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 355 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1017:

CAA GGGCATAGAA 60
TC ATTTATTGAT 120
CA GTACCAACAA 180
TG GTTCAGAGGA 240
AT GCAGAGGTTT 300
GC TCGAG 355

- (2) INFORMATION FOR SEQ ID NO:1018:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 502 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1018:

GAATTCGGCC	AAAGAGGCCT	AGAAGGAAAT	TGTCCCGAAT	CCCTGCAGTC	TTTCTGTAGG	60
TTGCGGCACA	ACGCCAGGCA	AAAGAAGAGG	AAGGAATTTA	ATCCTAATCG	GTGGAGGTCG	120
ATTTGAGGGT	CTGCTGTAGC	AGGTGGCTCC	GCTTGAAGCG	AGGGAGGAAG	TTTCCTCCGA	180
TCAGTAGAGA	TTGGAAAGAT	TGTTGGGAGT	GGCACACCAC	TAGGGAAAAG	AAGAAGGGGC	240
GAACTGCTTG	TCTTGAGGAG	GTCAACCCCC	AGAATCAGCT	CTTGTGGCCT	TGAAGTGGCT	300
GAAGACGATC	ACCCTCCACA	GGCTTGAGCC	CAGTCCCACA	GCCTTCCTCC	CCCAGCCTGA	360
GTGACTACTC	TATTCCTTGG	TCCCTGCTAT	TGTCGGGGAC	GATTGCATGG	GCTACGCCAG	420
GAAAGTAGGC	TGGGTGACCG	CAGGCCTGGT	GATTGGGGCT	GGCGCCTGCT	ATTGCATTTA	480
TAGACTGACT	AGGGGGCTCG	AG				502

- (2) INFORMATION FOR SEQ ID NO:1019:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 465 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1019:

GAATTCGGCC	AAAGAGGCCT	AATCAAATAG	TAAAGGCTGT	TCTGGCTTTT	TATCTTCTTA	60
GCTCATCTTA	AATAAGTAGT	ACACTTGGAT	GCAGTGCGTC	TGAAGTGCTA	ATCAGTTGTA	120
ACAATAGCAC	AAATCGAACT	TAGGATTTGT	TTCTTCTCTT	CTGTGTTTCG	ATTTTTGATC	180
AATTCTTTAA	TTTTGGAAGC	CTATAATACA	GTTTTCTATT	CTTGGAGATA	AAAATTAAAT	240
GGATCACTGA	TATTTTAGTC	ATTCTGCTTC	TCATCTAAAT	ATTTCCATAT	TCTGTATTAG	300
GAGAAAATTA	CCCTCCCAGC	ACCAGCCCCC	CTCTCAAACC	CCCAACCCAA	AACCAAGCAT	360
TTTGGAATGA	GTCTCCTTTA	GTTTCAGAGT	GTGGATTGTA	TAACCCATAT	ACTCTTCGAT	420
GTACTTGTTT	GGTTTGGTAT	TAATTTGACT	GTGCACGATC	TCGAG		465

- (2) INFORMATION FOR SEQ ID NO:1020:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 243 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1020:

GAATTCGGCC	TTCATGGCCT	AGGATTTCGT	ATGCAAGCTC	TTGTTTCTCA	GGCTGCCTGC	60
AGAAGAAGTC	GCTATAAATT	ATCTGTTGTC	TACATGGTAC	AAGGCCCATT	GACTCATCTG	120
ATGCTTGTTT	TGTTAATTTC	TTTAATATTT	TTATCACGGG	GCAGTGGGAG	GGCTTGGGCT	180
TTTAGCCACA	GCTGTTTTAA	GACTTCTGAT	CTCCTGCCCT	GCAGGAATAG	GTGGCAACTC	240
GAG						243

- (2) INFORMATION FOR SEQ ID NO:1021:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 442 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1021:

CTCCACCGAG	AGCCTGGACA	GTATGAAGGC	TCTGACAGCC	GCCATCGAAG	CTGCAAACGC	60
CCAGATCCAT	GGCCCTGCCA	GTCAACACAT	GGGCAATAAC	ACTGCCACCG	TCACCACCAC	120
GACTACCATA	GCCACCGTCA	CCACGGAGGA	CAGGAAGAAG	GACCACTTTA	AGAAAAATCG	180
ATGCCTGTCT	ATCGGGATAC	AGGTGGATGA	TGCTGAAGAA	CCTGACAAAA	CAGGGGAGAA	240
TAAAGCACCC	AGTAAGTTCC	AGTCCGTGGG	AGTGCAAGTA	GAAGAAGAGA	AGTGCTTCCG	300
CAGGTTCACT	CGATCCAACA	GTGTGACGAC	AGCAGTACAG	GCCGACCTGG	ACTTCCATGA	360
TAATCTGGAA	AATTCTCTGG	AATCTATAGA	GGACAATTCG	TGTCCTGGCC	CCATGGCCAG	420
ACAGTTCTCC	CGCGATCTCG	AG				442

- (2) INFORMATION FOR SEQ ID NO:1022:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 274 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1022:

GAATTCGGCC TTCATGGCCT	AGATGATCAG	GTTTTTCTGG	ATGGAAATGA	GGTGTATGTA	60
TGGATCTATG ACCCAGTTCA	. CTTTAAAACA	TTTGTCATGG	GATTAATTCT	TGTGATTGCA	120
GTAATAGCGG CCACCCTCTT	CCCCCTTTGG	CCAGCAGAAA	TGAGAGTAGG	TGTTTATTAC	180
CTCAGTGTGG GTGCAGGCTG	TTTTGTAGCC	AGTATTCTTC	TCCTTGCTGT	TGCTCGATGC	240
ATTCTATTTC TCATCATTTC	GCTCATAACT	CGAG			274

- (2) INFORMATION FOR SEQ ID NO:1023:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 196 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1023:

GAATTCGGCC	TTCATGGCCT	ACTTTTCCAG	AAACCAAGAG	TGGCTCTACT	GTGGCTATAT	60
TATTATTGTT	ATTATTATTA	TTTTGGAGAT	GGGGTCTCAC	TTTGTCATCC	AGGCTGGAGA	120
GCAGTGGCAC	CATCATAGCT	CACTACAGCC	CCAAACTGCT	GTGCTCAAGG	GATCCTCCTG	180
TCTCAGCCTT	CTCGAG					196

- (2) INFORMATION FOR SEQ ID NO:1024:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 395 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1024:

GAATTCGGCC	TTCATGGCCT	AATCATTTAT	ATAAAGTTTA	AAAACATTTC	AGAACTGAAC	60
TATATATTTT	TAGAAATATC	TGCATATGCC	ACATAAATTT	TTAAAATCAT	AAGAATGCTA	120
AACAGCACAT	TCAGGACAGG	GTGAAGAAAC	AGGCATGCAG	GTTGTGCAGT	AGGAAGCTGG	180
GTAACATTGT	TCCTTATGGC	TTTGTTGTCG	CTTCCAGAAT	TTCATTAAAA	ACTTTTTAAA	240
AAACATGGGC	CCACATTATG	AATTACGTCT	GCTTTTAGAG	TACTAAAAAC	TCCAAGCAAA	300
AACACATGAG	CCACCGGGCA	CGCCTGGCCT	TTATTTTATT	TTTCTACGTT	ATTATTCCTG	360
TTTTCAGAGG	AGGGAATTGT	CAGGGAACTC	TCGAG			395

- (2) INFORMATION FOR SEQ ID NO:1025:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 429 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1025:

GGAGAGCTCT	GGGCCAGCCC	TTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	60
CTCTCTCTCT	CTCTCTCTCT	CTCTCTCTCT	CTCTGTGTGT	GTATATATAT	ATATATANAC	120
TTTTCCCTTC	TGGATGCAAT	AGAGCTATTT	TTTTCTCTTT	GGAATTGÄGT	GACACCACCA	180
AGATACGTTT	TTGGGTTGAA	TATGTGTGTT	TTTCAAAATT	CAGTCTGGCC	TTTTTTGTTG	240
			TCACTCTTGT			300
GGCACTATCT	CTACTCACTG	CTACCTCCGC	CTCCCAGGTT	CAAGCAATTC	TCCTGCCTCA	360
GCCTCCCAAG	TAGCTGGGAT	TATAGGCATG	TGCCACCATG	CCCAGGCAGT	TTTTGTATTT	420
AGTCTCGAG						120

PCT/US98/06956

- (2) INFORMATION FOR SEQ ID NO:1026:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 407 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1026:

GAATTCGGCC	TTCATGGCCT	AGAGAACTGG	AGCCAGCTGT	CAACTGCCCC	CGCCCCACCC	60
AGGCCATTTG	GCTTCTGCTA	CCGGCATGCT	GCTCAGGGCT	CTGCCCAAGG	ACAACGACGA	120
		GGTCATCTTC				180
		ACACCAACTA				240
TGCCCAGACC	CTGAGAGTCC	CTGGACCATG	ACGTAGCCTG	TGTGTGAAGG	GAGCAAGACA	300
GCCTTGACAG	AAGCACAGAG	AACGCCACTG	GGATTCTTAA	AGACGCGAAG	GGAAAAAGCA	360
CAGAAGATGC	TGGCGCTGCA	TCTCCTCCAG	CACCGAGAGG	CCTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:1027:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 402 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1027:

GAATTCGGCC TTC	ATGGCCT AAATTAATA1	CCTTATTTTT	GCAGATTAGG	AAACTAAGAC	60
GTACTGAGGC TGG	GTGCCTG GTTCAAGATC	ATATAGCTAA	CATTATTGGA	CATGCAAATC	120
	TGACTCT GAGCTGATGT				180
	IGAGGGG GAAAGGGAA1				240
AATTAATTCG TTTC	GCAGAAA TTGGCAAAA1	TTGGGGTTCC	CTTCTTAAAA	GTTTCCTTCT	300
GTCACTTGGA AAA	AATTTAA AATATGTGCA	TTAGGTTGAC	AAAGATCAAA	AAAGTTAAAA	360
AAAAACCCTT TTTC	ggaatgc tgtggagaaa	GTAGCACTCG	AG		402

- (2) INFORMATION FOR SEQ ID NO:1028:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 320 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1028:

AAAATAGATT CTGAGGCAGG CATCTCTACT	TTCATGGCCT AAGGGGCTGA AAT. ATTTGGCTGG ATGTGGTGGC TCG CAGATCACCT GAGGTAAGGA GTTC AAAAATACAA AAAATTAGCC AGG: GGCTGAGGCA GGAGACTCAC TTG; AGGCCATGAA	CGCCTGT AATCCTAGCA CAAGACA AGCATGTCCT CGTGGTG GCAGGTTCCT	TTTTGGGAGG GGTGAAACCC GTAGTCCCAG GGCAGGTCTA	60 120 180 240 300 320
	TION FOR SEQ ID NO:1029:  SEQUENCE CHARACTERISTICS:  (A) LENGTH: 252 base pa  (B) TYPE: nucleic acid  (C) STRANDEDNESS: doubl.  (D) TOPOLOGY: linear			
	MOLECULE TYPE: cDNA SEQUENCE DESCRIPTION: SEQ	ID NO:1029:		
CTGCATTTT CAACTAGTT	GCTCTCATCC CATATCTATT GAGA ATTAAAATCC CTCCAGGTGA TTC: TTCATAAAGA AAACCTCTGG AGGC TTGAGATCTA GGTTATCTGC CAAC	GATGCA GGCTAGTTCA GCCCATA GTGCCTGCAC	GTAAACAATA TCCAGGTCTC ACTCTAAATG	60 120 180 240 252
(2) INFORMA	TION FOR SEQ ID NO:1030:		•	
(i) S	EQUENCE CHARACTERISTICS:  (A) LENGTH: 280 base pa  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			•
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ	ID NO:1030:		
TGTTTTTAA CATATTTTAT CATCCTCTTA	TTCATGGCCT ACCTTATGGC CTAM ATGATTTCTT GTAATAGACT ATTC GTCATGTTAA TGATAAATTT TCTC GGTGGCCTTG GGGGACTTGC AGG GAACTACAGA GTCAGATGCA GCA	GGGTCAG CTAATACTTT GACTTTG ATTTGTATGT FCTGAGT AGCTTGGGTT	TTTGCATCTT TTTTGCCCTT TGAATACTAC	60 120 180 240 280
(2) INFORMA	TION FOR SEQ ID NO:1031:	,		
(i) [·] s	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 291 base pa  (B) TYPE: nucleic acid  (C) STRANDEDNESS: doubl  (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEC	) ID NO:1031:		
BACCATTATT	TTCATGGCCT AGAGCAAGTG GTT	AATACAC CAGAAAACAG	AGAGTATCTT	60 120

	CGGCATCTTG GACATCTCGA CAAGTGGGTG AACGTACGTT AACGGGGATA GCGGAGATGG AGTCACCCAT GTTATCCCAG TGGCTCTCGA G	240 291
(2) INFORMA	ATION FOR SEQ ID NO:1032:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 277 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1032:	
GATCAGCCTT GAGACCACTG ATCTGAATGC	TAACTTTTTT ATTACATTAA AAAACAGGAC TCTGGGAATT GTCACTTTAT ATATTTTTTC CAGACTGTGT CATTGTGTAT GCCTGTGCCA CCCAACGGAT ATCATGTTTA GCTCAAATTT ATGTTGGATA GAGGTTATAG GATGGTCCTT AGAAAGGAAT GTTTATTTTG CTGTTATGTT TTATATGGGA TAATACTTTA ACTATCCTAT TCCCCAACAA ACTCGAG	60 120 180 240 277
(2) INFORMA	ATION FOR SEQ ID NO:1033:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 298 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1033:	
GATCATTTGC AGTTGTGTGC GGAAAATGAA	TTCATGGCCT AGGTTACATG TATAAAATAA TCGTAGCTGT TAATCAAACT TATTTGTTGT TTCACATGTT TTCATTTATT TGTTCATTCA GCAAACACTT CAGGAATTAA AATCCAGTGT TGTTCTTTTC TTATTTTTT TTTGGCTAGT AACCACTGTG ACTTTGTAAA GCTGCGGGAA ATGCTCATTT GTACAAATAT CGAGAGCAGA CCCATACCAG GCACTATGAG CTTTACAGGC ATCTCGAG	60 120 180 240 298
(2) INFORM	ATION FOR SEQ ID NO:1034:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 339 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1034:	
GACTGGAAGA CTGGAAGAAC AGACACTGAC CCTGGATTTC	AGACACTGAC TGACTGGAAG ACCTGGATTT CTTTCTGGAA GACACTGATT CCTGGATTC TTTCTGGAAG ACACTGATTG ACTGGAAGAT CTAGATTTT TAGATTTACT GGAAGACTTG GATTTGGTGG AAGACGTAGA TTTTTCTGGA TGACTGGAAG ACCTGGATTT CTTTCTGGAA GACACTGATT GACTGGAAGA TTTCTGGAAG ACACTGATTG ACTGGAAGAT CTAGATTTTT CTGGAAGAAC GGAAGACTTG GTAGGCCATG AAGGTCGAG	60 120 180 240 300 339

(2) INFORMATION FOR SEQ ID NO:1035:

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 263 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1035:	
GAATTCGGCC AAAGAGGCCT AGCACTGTAA AGATGAAGCT GGCTAACTGG TACTGGCTGA GCTCAGCTGT TCTTGCCACT TACGGTTTTT TGGTTGTGGC AAACAATGAA ACAGAGGAAA TTAAAGATGA AAGAGCAAAG GATGTCTGCC CAGTGAGACT AGAAAGCAGA GGGAAATGCG AAGAGGCAGG GGAGTGCCCC TACCAGGTAA GCCTGCCCCC CTTGACTATT CAGCTCCCGA AGCAATTCAG CAGAGATCTC GAG	120
(2) INFORMATION FOR SEQ ID NO:1036:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 262 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1036:	
GAATTCGGCC AAAGAGGCCT AAAGCACCCG CTTCCTCACC ACCCCCACTG TTGGGCCTAT AGTAGCAGGT TAGTGAGTAC CTAGGGCGGC TCAACTCCTC CCACAGCACC AACCCAGCAT GGTCCCACTG AAGTCCTACT ACGCCCTCCC CTCCCCAGCC TTTTCCAGAA ACCATACTGG GCTCAGATCA GAGCTCCGAA GCGGTCAAAG TGAGCTGAGC	120 180
(2) INFORMATION FOR SEQ ID NO:1037:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 285 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1037:	
GAATTCGGCC AAAGAGGCCT ACGGAGCTGT CAGCCAGGGG AGTGGGGTCA GCCGTCAGCC AGCCCTCCCG TTTCCCGCCC GTGGGCCCTG ACCACACTCC CTTTTCTAGA AGTCAATCCT AAGGTTTCTC TGCTCTGGCT AAGAGGATGT AAATTTGGAT TCTTAGAGGG CATGGCACCC CCAGTCCCTG CCCAGATAAA GTAGCACAGT GGCATGAGC ACCTCTGTCT GTTGCTGACG TTGGGGGGGCT TACACACCCA CCTCATCTCC GTGCACAGAC TCGAG	
(2) INFORMATION FOR SEQ ID NO:1038:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 291 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
437	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1038:

GAATTCGGCC TTCATGGCCT AGCI	CTGCAA GGAAGAGAGC	TTCACGTCTC	TGGTCAGCCA	60
AGCGAGGCTG TCTCTCCAGC TCTC	AGAGAG CTCTCGGGGC	TCTCCTGCAG	GAGACCAGGC	120
CAATGCTCCT GTGCTTCCTG GGGC	CAGTAG CAGCACCCTG	AGCTCCCTGC	CACCAGGCAG	180
CTGAAAGGCA TAGCGTGAGG TGCT	TCTCTC AGTCCCAATT	ATGACAGTGG	CCACCGGAGA	240
CCCAGCAGAC GAGGCTGCTG CCCT	CCCTGG GCACCCACAG	GACGCCTCGA	G	291

- (2) INFORMATION FOR SEQ ID NO:1039:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 393 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1039:

GAATTCGGCC	TTCATGGCCT	AACTCTACAG	CAGTGCTTAT	TTTTACATTT	CCAAGCGAAT	60
ACCAAAACCT	TCAGCAAAGA	TTGGGTTGGT	ATTAACGGGT	TTTTGTCTCA	GAACTGTATT	120
GTGGATCCCG	GAGTTTCCCC	CAAATCCATC	TACATCAAAT	TTGTAGAAGT	AGAGAGGGAT	180
TTTCTTTCCG	CAGGCTCTTT	AGTTGAGTGC	CTGGAAAAAG	CCATTGGATA	CCCCTTAAAA	240
TTTAACAACT	GAATGTCATC	CTTCATAAGG	ATTTGGGCTC	TTAGCTCCTT	CTTCTCTACT	300
CACTTCCCAT	TACCCGGACC	ACCCCTCATC	CAGATGCCGC	CGTCAGACTC	TTCATGGAAA	360
CCCTTTCTTC	AATTGGGCCA	GTACGATCTC	GAG			393

- (2) INFORMATION FOR SEQ ID NO:1040:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 603 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1040:

GAATTCGGCC	AAAGAGGCCT	ACCCTACTGT	GACACACCTA	CCATGCGGAC	ACTCTTCAAC	60
CTCCTCTGGC	TTGCCCTGGC	CTGCAGCCCT	GTTCACACTA	CCCTGTCAAA	GTCAGATGCC	120
AAAAAAGCCG	${\tt CCTCAAAGAC}$	${\tt GCTGCTGGAG}$	AAGAGTCAGT	TTTCAGATAA	GCCGGTGCAA	180
GACCGGGGTT	TGGTGGTGAC	GGACCTCAAA	GCTGAGAGTG	TGGTTCTTGA	GCATCGCAGC	240
TACTGCTCGG	CAAAGGCCCG	GGACAGACAC	TTTGCTGGGG	ATGTACTGGG	CTATGTCACT	300
CCATGGAACA	GCCATGGCTA	CGATGTCACC	AAGGTCTTTG	GGAGCAAGTT	CACACAGATC	360
TCACCCGTCT	GGCTGCAGCT	GAAGAGACGT	GGCCGTGAGA	TGTTTGAGGT	CACGGGCCTC	420
CACGACGTGG	ACCAAGGGTG	GATGCGAGCT	GTCAGGAAGC	ATGCCAAGGG	CCTGCACATA	480
GTGCCTCGGC	TCCTGTTTGA	GGACTGGACT	TACGATGATT	TCCGGAACGT	CTTAGACAGT	540
GAGGATGAGA	TAGAGGAGCT	GAGCAAGACC	GTGGTCCAGG	TGGCAAAGAA	CCAGCATCTC	600
GAG						603

- (2) INFORMATION FOR SEQ ID NO:1041:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 292 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1041:

						60
CCAGAAGGAC	TGCAACTGCC	TGCACGTGGT	GGAGCCCATG	CCAGTGCCTG	GCCATGACGT	120
GGAGGCCTAC	TGCCTGCTGT	GCGAGTGCAG	GTACGAGGAG	CGCAGCACCA	CCACCATCAA	180
GGTCATCATT	GTCATCTACC	TGTCCGTGGT	GGGTGCCCTG	TTGCTCTACA	TGGCCTTCCT	240
GATGCTGGTG	GACCCTCTGA	TCCGAAAGCC	GGATGCACAC	ACTGAGCTCG	AG	292
	CCAGAAGGAC GGAGGCCTAC GGTCATCATT	CCAGAAGGAC TGCAACTGCC GGAGGCCTAC TGCCTGCTGT GGTCATCATT GTCATCTACC	CCAGAAGGAC TGCAACTGCC TGCACGTGGT GGAGGCCTAC TGCCTGCTGT GCGAGTGCAG GGTCATCATT GTCATCTACC TGTCCGTGGT	CCAGAAGGAC TGCAACTGCC TGCACGTGGT GGAGCCCATG GGAGGCCTAC TGCCTGCTGT GCGAGTGCAG GTACGAGGAG GGTCATCATT GTCATCTACC TGTCCGTGGT GGGTGCCCTG	CCAGAAGGAC TGCAACTGCC TGCACGTGGT GGAGCCCATG CCAGTGCCTG GGAGGCCTAC TGCCTGCTGT GCGAGTGCAG GTACGAGGAG CGCAGCACCA GGTCATCATT GTCATCTACC TGTCCGTGGT GGGTGCCCTG TTGCTCTACA	GAATTCGGCC TTCATGGCCT ATAGAAACAT CAGTGGGCAC ATTTACAACC AGAATGTATC CCAGAAGGAC TGCAACTGCC TGCACGTGGT GGAGCCCATG CCAGTGCCTG GCCATGACGT GGAGGCCTAC TGCCTGCTGT GCGAGTGCAG GTACGAGGAG CGCAGCACCA CCACCATCAA GGTCATCATT GTCATCTACC TGTCCGTGGT GGGTGCCCTG TTGCTCTACA TGGCCTTCCT GATGCTGGTG GACCCTCTGA TCCGAAAGCC GGATGCACAC ACTGAGCTCG AG

- (2) INFORMATION FOR SEQ ID NO:1042:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 331 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1042:

GAAGAAAAGC	AGAAAGAACT	GGCAGAAACA	GAACCCAAAT	TCAACAGTGT	GAAAGAGAAA	60
GAAGAACGAG	GAATTGCTAG	ATTGGCTCAA	GCTACCCAGG	AAAGAACGGA	TCTTTATGCA	120
AAGCAGGGTC	GAGGAAGCCA	GTTTACATCA	AAAGAAGAAA	GGGATAAGTG	GATTAAAAAG	180
GAACTCAAGT	CTTTAGATCA	GGCTATTAAT	GACAAGAAAA	GACAGATTGC	TGCTATACAT	240
AAGGATTTGG	AAGACACTGA	AGCAAATAAA	GAGAAAAATC	TGGAGCAGTA	TAATAAACTG	300
GACCAGGATC	TTAATGAAGT	CAAAGCTCGA	G			331

- (2) INFORMATION FOR SEQ ID NO:1043:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 268 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1043:

GATGGCCACT	TCCCAGGCTG	ACATAGAGAC	CGACCCAGGT	ATCTCTGAAC	CTGACGGTGC	60
AACTGCACAG	ACATCAGCAG	ATGGTTCCCA	GGCTCAGAAT	CTGGAGTCCC	GGACAATAAT	120
TCGGGGCAAG	AGGACCCGCA	AGATTAATAA	CTTGAATGTT	GAAGAGAACA	GCAGTGGGGA	180
TCAGAGGCGG	GCCCCACTGG	CTGCAGGGAC	CTGGAGGTCT	GCACCAGTTC	CAGTGACCAC	240
TCAGAACCCA	CCTGACGCAC	CCCTCGAG				268

- (2) INFORMATION FOR SEQ ID NO:1044:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 391 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1044:

GTCATTGCAT	CCAAGATAAT	GAAATATCTA	TAACCCCAAA	AGTTTCCTGT	GTECCCTTGT	60
TATTCATTGC	CCTGCCCAGT	ATTCAGGCAA	CACGGATCTG	TTTTCTGTTT	TAGGTTAGTT	120
TGCATTTTCT	ATAAAGTCTT	ATGAATGAAA	TAATAAAATG	TGGACTATTT	TCATGGGCCG	180
GGGAGCAGTG	TGGCTTCTTT	CATTTCAAAT	GATTGTTTTG	AAATTCATCC	ACAGCGTTGC	240
ACGTATCAGT	AGTAGATTCC	ATTTGATTGT	TGATTTGTAT	TCTATTGTAT	GCCTGAGTCA	300
AAATTTATTC	ATCTCTTTGT	CTGTTGATAG	CCATTTGGGT	TCTTCCAGTT	TGGGGCCATT	360
ACAAATAGAG	GTACTATGAA	CTTTTCTCGA	G			391
						J / L

- (2) INFORMATION FOR SEQ ID NO:1045:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 288 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1045:

					TGTACTTTGT	60
ATAAATTCAT	TGTCTGTTTT	ACAGTTTGAA	TGGCTCTTTT	ACCCTGGCAT	AATTTTGTAA	120
CGTGTGGAGC	ATTTGGAAAA	TTTTTATTGG	ATTATGCAGA	TATTTTCAAT	GCTGGTATTT	180
CATTATATGA	TAGTAAAAA	TCACTTTTTG	TTTTGTTTTG	TTTTGTTTAT	TTTTCTTTTT	240
TTTTTGAGGC	AGAGTTTCGT	GCTTGTCGCC	CAGCCGAAGG	CGCTCGAG		288

- (2) INFORMATION FOR SEQ ID NO:1046:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 279 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1046:

GAATTCGGCC 1	TCATGGCCT	AGTAACTTCA	TAACATTGCT	GGTGTTGAGG	TGAATCTTAG	60
TGGTCATCCA C	STCCCAAGGC	ATCCTTGCCA	GCCCCTACA	ATACCTGGAT	GGGCGCTTAT	120
CTTCAGGTAG C	CCTGAGCCT	TTCTGGTAAA	GAGGAGCTCA	CTATTTCTAA	AGGAAACCTG	180
TGCCATTGGG 1	TAAAAAAGT	TTTTTAATTT	AAACATTGGT	AGTTGTTAAG	CAGTTGTTGA	240
ATATTTTGAG (	CCAAAATTTG	TTACCTCCCA	TACCTCGAG	•		279

- (2) INFORMATION FOR SEQ ID NO:1047:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 350 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1047:

GAATTCGGCC TTCATGGCCT AGCAGCATTC AAGGAATTAA TATTAGTCAC TGAGAACAAA AAGCGAAATT AGAAAATTTC AAGTCACTTC TAGGCTTGTA GGGGAGAAGA CGTGTAGTGA TGAATTCTAT CATTTATGAA GTACCCACTG GATCCCACAC ACTGTGCAAG ACCTTTAGAT CAGGCGCCTC CCTCGGTTTT CTTCACCCTG TGCAGCAGGT GCTGTTATTT CCTTTTTTAA ATTATTATTA ATTATTATTA TTTTTTGAGA CAGGATCTCC CTTTGTCACT CAGGCTGGAA TGCAGAGGCA TGATCACTGC TCACTGCAGC TTCGACCACC CGATCTCGAG	6( 12( 18( 24( 30( 35(
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 298 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1048:	
GAATTCGGCC TTCATGGCCT AAAGCTTTTC AGTACTGTTT ACAAATTTGG TTTTATTGTG TCAACTTAAA AGCATGAGTC TAAATCTATT AGTCATACCA AATTGTTTCA TTTTATTTTA	60 120 180 240 298
(2) INFORMATION FOR SEQ ID NO:1049:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 367 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1049:	
GAATTCGGCC TTCATGGCCT AGAGCTTTGG TGCTTTTCAC ATAAGGAACT TACTTGGGCT AAAAAGTAAC CTCAGAGAAA CAGTGCTCCC ATTTGGTGGA TAAGGAAACT GAGGTTCCAA ACATGAGATG TAATAGCTTG CCCCAAATCT AGCCAGTGAG CAAGAGAGTA GACTTTTGCC IGTGCCAAAA CAGTAATCAC CATCCACAAG TGGCTATTTA AATTTTAATT ATTACAATTA AATTAAGGTTT AAAATCCAGT TCCCCAGTCC CACTGGCAAC TTAACAGCTA CCAGTGACTG IACCATATAT AACAGCATAT ATAGACATAC AGCATATACA ACACATACAT AGGGATTCCC ACTCGAG	60 120 180 240 300 360 367
(2) INFORMATION FOR SEQ ID NO:1050:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 367 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEO ID NO:1050:	

60

GAATTCGGCC TTCATGGCCT ACAATTTTAA AATTAAAATT TTTTCTATTT TTTTGCAATT ATCAACCTAA CACATTGAAG AAACTTGGGA AATATAGAAA AAACACACCA AAAAGTATCA

TCCCTTCCTT	ARAATGTICA TAGICAGTAA TA CTATGTCCAT GCCTACCTTA CI CCTTCCCTCC TCCCACCTT C CCTTCCTGCC ACTTACATTC TC	TTTCTTCCC TCT	TCTCTTCC C	CTCCCCACCC CCTCCCTTCC	180 240 300 360 367
(2) INFORMA	TION FOR SEQ ID NO:1051:	:			
(i) S	EQUENCE CHARACTERISTICS  (A) LENGTH: 340 base p  (B) TYPE: nucleic aci  (C) STRANDEDNESS: doub  (D) TOPOLOGY: linear	pairs d			
(ii)	MOLECULE TYPE: cDNA				
(xi)	SEQUENCE DESCRIPTION: S	EQ ID NO:105	1:		
TGCCCCCTGC AGATGATGATGATGATGATGATGATGATGATGATGATGAT	AAAGAGGCCT AAGAAGACCT CA ATGCTGTTCA TGAAGGGAAC AC GAAATCCTTC ACAAACACAA TA ETTCGACAGG GGCTCAAAAC GT GGAGAGCTAA TAGGAGGACT TG ACGATCTGTC CCAAAGCACC CA	CCTCAAGAA CCA ATTCAGTTC AGC ACTCTAAT TGG ACATAATT AAG	ACGCTGTG C CAGCTTTG F GCCCACCT F	STTTCAGCAA ATATCTTCTC ATCCTCAGCT	60 120 180 240 300 340
(2) INFORMAT	TION FOR SEQ ID NO:1052:				
(i) S	EQUENCE CHARACTERISTICS (A) LENGTH: 444 base points of the control	pairs 1			
(ii)	MOLECULE TYPE: cDNA				
(xi)	SEQUENCE DESCRIPTION: S	EQ ID NO:105	2:		
CTCACCCAG C GACTTCCTG C TTCCTAGTGC 7 GTTGCGGAGG 7 GTCTTCTTCA 7 TGGAACCTTG 1	TCATGCCT ACTATGGACA GC CATGGAACT ACCAGGAGG GA CCACCAACTG GGATGACAAG AG GACCTTGCA GCTGTCGGTG AC GAAGGGCTT TGTCCGGAGG AA CTCTCTCAT CGTCCTCAGC TG TGCACTGTC GGTCCTGACC GC CCAACACACACT CGAG	AGGGTCCC CAT CATCCGAC AGG CCTGTCCA CGG ATGTCTGGA CCT TTGTGGGG ACT	CCTACTA T SCCTTCAT C STGTCTGT G CACTATGT C	GACAACCAG CGCAAGGTG TTCACTTTT TCCTATGCT AAGCACCCC	60 120 180 240 300 360 420 444
(2) INFORMAT	ION FOR SEQ ID NO:1053:				
(i) S	EQUENCE CHARACTERISTICS  (A) LENGTH: 358 base p  (B) TYPE: nucleic acid  (C) STRANDEDNESS: douk  (D) TOPOLOGY: linear	pairs 1			

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1053:

(ii) MOLECULE TYPE: cDNA

GTGACGTCAG TGACCTCATT TTACTTGATC TATTAGCAGC ATTTCATACA GTTGTTGACT	120
CTTCTCCATT AAAACATTTA CTTTATTTGG CTTCTAGGAA ACATATTTTC CTGCTTTTTC	180
TTCCTATTTC TCTGACTCTT TTCTCAGTTT CCTTTGCTGT TTCCTTTTCT ATCCTCTAAA	240
CATTGAAATA TCCTAAGCCT AGTTTGGGAT TCCCTTGATG GTCTTCATTT CTTTAATGGG	300
AACTGTGCTG GTGACTCAAA TTTATATCTC CAGCCAGAAC CTTTCTCCTG AATTCCAG	358
(2) INFORMATION FOR SEQ ID NO:1054:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 386 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1054:	
CCTTCATGGC CTACTTCTGG TATTACATCA CACTGATCAT GCTGCTGGTG GCCGTGCTGG	60
CCGGAGCTCT CCAGCTGACG CAGAGCAGGG TTCTGTGCTG TCTTCCATGC AAAGTGGAAT	120
TTGACAATCA CTGTGCCGTG CCTTGGGACA TCCTGAAAGC CAGCATGAAC ACATCCTCTA ATCCTGGGAC ACCGCTTCCG CTCCCCCTCC GAATTCAGAA TGACCTCCAC CGACAGCAGT	180
ACTCCTATAT TGATGCCGTC TGTTACGAGA AACAGCTCCA TTGGTTTGCA AAGTTTTTCC	240
CCTATCTGGT GCTCTTGCAC ACGCTCATCT TTGCAGCCTG CAGCAACTTT TGGCTTCACT	300 360
ACCCCAGTAC CAGTTCCAGG CTCGAG	386
(2) INFORMATION FOR SEQ ID NO:1055:	
(A) GROVENOR GUYARA GERRA GERR	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 104 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1055:	
CGATTGAATT CTAGACCTGC CTGTGCTCCT CGATGGTGTC TCTCCCTCCA GAAAACGCAT	60
GCTTATTGAC CTTGGTTTTG ATCTGCTTGG CCGTGTCGCT CGAG	104
(2) INFORMATION FOR SEQ ID NO:1056:	
All Charles Charles Charles Charles	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 650 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1056:	
/vr/ Spanner procuretion: PEG ID MO:IO20:	
GAATTCGGCC AAAGAGGCCT ACACAAGGCT AAGGGTATTG GATATAACGG AAAGTGGAAG	60
CTATACCTGA CTTCCAGAGA ATGTGGACCG GATATAAGAT CTTAATCTTC TCTTATCTTA	120
CTACAGAAAT CTGGATGGAG AAGCAGTATT TATCTCAAAG AGAAGTGGAC CTAGAGGCTT	180
ATTTCACTAG GAATCACACC GTTTTGCAAG GTACTCGATT CAAAAGAGCC ATTTTCCAAG	240

GGCAATACTG TAGAAATTT GGCTGTTGTG AAGACAGAGA TGATGGCTGT GTCACTGAGT TCTATGCGGC GAATGCGTTG TGCTACTGTG ATAAATTCTG TGACAGAGAA AATTCTGATT

240

PCT/US98/06956 WO 98/45437

GCTGTCCTGA CTACAAGTCC TTTTGCCGTG AAGAGAAAGA ATGGCCTCCT CACACACAGC CTTGGTATCC AGAAGGTTGC TTCAAAGATG GTCAACATTA TGAAGAGGGA TCAGTAATTA AAGAAAACTG CAACTCCTGC ACATGCTCAG GACAGCAATG GAAATGTTCC CAGCATGTAT GCCTTGTTCG TCCAGAATTA ATTGAACAGG TCAATAAAGG AGACTATGGA TGGACAGCAC AGAATTACAG CCAATTTTGG GGAATGACTT TAGAAGATGG ACTCCTCGAG	420 480 540 600 650
(2) INFORMATION FOR SEQ ID NO:1057:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 378 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1057:	
GAATTCGGCC AAAGAGGCCT ACACGTATTG GCCAGGATGG TCTTGATCTC CTGACCTCAT GATCCGCCGG CCTTGGCCTC CCAAAGTGCT AGGATTACAG GCGTGAGCCA TCGCGCCCAG CTGAGAATAG TTTTAAGAAT TGGTTGAGAG GCAGTTGCTT TTTCTTTGAA TATCTAGAAC TGTTCTGGAC TAACGTCAAA GAAACACCAT GGCAACATTA AAGGGAAGAT TATTTGAGAG GCGGGGGATA GTATGGCTTA GGACTTGGC TGCTACCTTT GACTTTGTAA TTCAAAAGAT TGTAATGTTC CATATTTCA ATCTGATCAT TAAAAATATC TGTGTTACAT GCAAAAAAA ACCTATAGGC AACTCGAG	60 120 180 240 300 360 378
(2) INFORMATION FOR SEQ ID NO:1058:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 259 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1058:	
GAATTCGGCC TTCATGGCCT AATTTTAACA TTTACATAGA CAATTCATTT GGTGTTTTGT CTCCTAGTTA TTTGGCCCAA TCTCTGATCA TTTCCACTCT GTCTTGGCCA CTCACTCGT TTGTCATATC TTGGCCATTA TCATCACCTC AAATTGCTCC ATCTTCAAAA TACTTGCATC TTATTTATTG ACCATATTCC TTCCACTTGG TTTATTGAAC TATTCCCTCT ATCATTCTCT GATTTCACTG CAGCCAATG	60 120 180 240 259
(2) INFORMATION FOR SEQ ID NO:1059:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs	

- (B) TYPE: nucleic acid
  (C) STRANDEDNESS: double
  (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1059:

GAAAAAAACT	ACTAACCACT	GCAAGCTCTT	GTCAAATTTT	AGTTTAATTG	GCATTGCTTG	60
TTTTTTGAAA	CTGAAATTAC	ATGAGTTTCA	TTTTTTCTTT	GAATTTATAG	GGTTTAGATT	120
TCTGAAAGCA	GCATGAATAT	ATCACCTAAC	ATCCTGACAA	TAAATTCCAT	CCGTTGTTTT	180

TTTTGTTTGT TTGTTTTTC TTTTCCTTTA AGTAAGCTCT TTATTCATCT TATGGTGCAG

CICGAG	246
(2) INFORMATION FOR SEQ ID NO:1060:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 103 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1060:	
GAATTCGGCC TTCATGGCCT ACGAGAGTAT ATTGGTAGGG CTGGAATTTC TGGTTCATAT GGTAACTAAC TCTATGTTGA ACATTTTGAG GAGCCCTCTC GAG	60 103
(2) INFORMATION FOR SEQ ID NO:1061:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 361 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1061:	
GAATTCGGCC TTCATGGCCT AAAAGGTTAG GCAATCACTG GGACCCGCAT GGTGTTCCTC CAAAGAATAG GGTAAAGGAG AGCTGGGAGG GAGCCCTCTC CGTTGGGTGA CTCTTGTGTG CCCTTTAGAC AGGCTGGCCT GCCGGTTCCA CAGGGTACAG TTAGGACTTC AGTCTTTCTT TTTCTGTTTT GAGTTGGTGA GTGAGTGATA GGGTAACATG GGCCTTCAGG ATGACCCCTT GGAACTGTGC CGAGTTCCTT AAATCTCAGC TGGGAGTCCTG GACCTGGGAG GCCCCTGTGA GGGCCAGCTC TGGAAAAACC TGGGAGTTGA TGCCGGAGGC TGTGGAAGGAA CTCTGCTCGA G	60 120 180 240 300 360 361
(2) INFORMATION FOR SEQ ID NO:1062:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 292 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1062:	
GAATTCGGCC TTCATGGCCT AAGAAAAATT GGGAACAAGC TAAGTGCCCA CATAGTTACA AAAATTACGT TAAATAGATA CACGGTTGCT TTTAAGCTCC ACATACAGCA CCATAGAGCT TTTTATATAT TTGTAGGCAT TAAAGCAATT CCAGGAAGGA TCTAAACCAA ACACTTGACC CAGGTTGTCT CTCTGGGGAG TGGAGCCACA TGGGATTTCA CTGTTTCTGT ATTCTTATTA CTTATATTAA AACACACATG AACAGAAGAA AAAATAGCCC CAGTATCTCG AG  (2) INFORMATION FOR SEQ ID NO:1063:	60 120 180 240 292
(1) SECULENCE CURPS CONTRACTOR	

(A) LENGTH: 331 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1063:	
GAATTCGGCC TTCATGGCT ACCGTTGTTA CACTTCTGGA CACAAGTTGG GCCGAAGTAA GCCAAGCCCA GTCCTTCCTG TTTCCTTTCT CAGGAAATGT GACCACGTGC ACTGGGAAGC TTTGTTGTAAA GTAGATAGGG GTATGAGCCA ATTGCCCAGC ATTGGTGTTT TGTTTTTTGT TTGTTTGTTT GTTTTCACAG AGTCTTGCCC TGTCACCCAG GCTGGAATGC AATGGCGTGA TCTCAGCTTA CTGCAACCTC TGCCTCCCAG GTTCACACAA TTCACCTGCC TCAGCCGCCT GAGTAGCTGT GATTACGGGC ACCGTCTCGA G	60 120 180 240 300 331
(2) INFORMATION FOR SEQ ID NO:1064:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 136 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1064:	
CGAGTGTTAC ATTCGTTCTT CCGCTCAAAT CCTGATCTGG TCCATTAAAG AGTGTTCGCA GACAAAGTTT CTGAAAGATT AGAGAAGAAT CCCCCAAGAA TCAATTACAA CCAAAATGGA AAGGGACAAC CTCGAG	60 120 136
(2) INFORMATION FOR SEQ ID NO:1065:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 255 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1065:	
GAATTCGGCC TTCATGGCCT AGAATAAAGG AAAATTCAGG TCATAGATTG AGTGCTATAT TTGAAGTAAA TACAGACCTT CAAAAAAATA TAATATCAAA AATCACTGCT GAGCTCTCCT GGCCTTCCAT ACTTAGCTCA CCCCGGCACT TGAAATTTCC ACTTACTAAT ACAAAACTGCT CCTCAGAAGA AGAGATTACT TTAGAAAATC CTGCAGATGT TCCTGTCTAT GTTCAGTTTA TTCCTCTGGC TCGAG	60 120 180 240 259
(2) INFORMATION FOR SEQ ID NO:1066:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 379 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1066:

GAATTCGGCC	TTCATGGCCT	ACAACCTGCT	TTCCACCTTC	TGTAATCTCC	CATCAGTGAT	60
AAATTACCCA	TCAGCTTTCC	AGATTCCAGA	ATTTTGCTGA	CATCTCCTGT	TGGCTATGTT	120
CTTATTTCCT	TTTCTGTTTA	TTCCTGTGAC	CTTGTGCCCT	TTAATTCTTT	CCCATAATTT	180
GTTGGGACTT	CAGAAGGAAG	TGGAGCTAAA	GGCATGTGTC	TGCCTGCCCC	ATCTTGGCTG	240
GAAGTTGGGA	AGGCCTTCCT	TCCAAGGCAC	CCAGCATAGC	ACCTGGCACA	TGATGGATGC	300
TCAGCAAATG	TCTGTGGGTC	TTCTTTTTAC	TAAACAGGCA	GTTGATTTCA	CCAGAAGTAG	360
TGACCACCTA	AGTCTCGAG					379

# (2) INFORMATION FOR SEQ ID NO:1067:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 316 base pairs

  - (B) TYPE: nucleic acid
    (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1067:

GAATTCGGCC	TTCATGGCCT	AACACAGCTC	ACATCAGAAT	ATAATAGTGG	AACTAGGGTG	60
ACTTCACTCC	CTTTCACCTG	ATGTCTATCT	TGGCCTTTTA	GCACCTTGAC	TATCCCTGAA	120
AAGACTGGGT	CTTTGTTTTC	CCAGGGAAAA	AACGAAGTGA	TGTAGATCTA	AGAAATAGTG	180
CCTCTTTAAT	ATTTAATTCT	TACATGACAA	CTAACACACA	GGGAAAAGGC	TATGTTAAGT	240
TGATTATAGC	TCCTCTTAAA	ATGTCCTATG	CTGTCAGTTG	GTCTTAGAGA	CATGGGAATA	300
ACCAAGCAAT	CTCGAG					316

- (2) INFORMATION FOR SEQ ID NO:1068:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 299 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1068:

GCGATTGAAT	TCTAGACCTC	ACCTCTGATC	TATCTCTTTT	ACCTCAGCAA	TTTATTTCCC	60
ATTATTATA	TCTACTTTAT	TGTTCTTATG	AGACAATAGA	CTATGATAAT	TTTCCAGAAA	120
TAATTTTGTT	TTCTTCCTCC	CATCTTCTAA	TGTTGAGACC	GTTTCTCTGT	TTTCTTTCAT	180
CTCTACCCCT	CAGTCTCATA	${\tt GGTTTATTTC}$	TCATTTCCAA	TCCAGCGATT	TCAAAACCTG	240
TACAACAAAC	CAACTCAGCA	GCCCTTGGCA	ACTTGAGGAG	ATTTCACAAA	CCACTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:1069:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 256 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1069:

GAATTCGGCC TTCATGGCCT ACCATTTCCA CAACCATTTT AATCTGCGCA TCGGTCCCAG

60

ACGTAGGGAT TCCTCGTCTC ATCTTGGAAA CATTGCCAGC AGTGGTTCTG ATTTGGAAGC CTGCGTCTGT CACGTGACAC CGTCTGAGCC TGTGCCTGCC TCTCTTTCTT CCGGCAGTGC CCTGTACTCT GTGGGGATGA CGGCAGTGGG CCTGGCCATC CTGTGGTATG TTTTCCGTCT GGCCGGGAGA CTCGAG	
(2) INFORMATION FOR SEQ ID NO:1070:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 321 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1070:	
GAATTCGGCC TTCATGGCCT AGCCATCATG TTTATTAGAA GGTTGGATTT TGGTGTGTGC TCTAGACAGA TACAGAATAA ATACCTGCGC CTTGAGAACA GGAAGTCCAC GATTCATACA AAGTGCTCAC TACAGGAAGT TGCTGTGTCA AAATCCAGGC AAGGACCCAA CTCCGGGCAG CCCCTCCTCC CTGCTGACCT CAACAAGGGC TGTGCTATTG TTTTTTATTT TATTATTTA TTTCTCTTTA TTATTATTAA TATTATTATT ATTTGCTTTT GCTGTGGTCA CTATCATTGG CAAAGTTCCT TTTCCCTCGA G	120 180 240
(2) INFORMATION FOR SEQ ID NO:1071:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 261 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1071:	
GAATTCGGCC TTCATGGCCT AGGGAGGTAT TTGTCATTGT GAAAAGCTGG GAATCTCAAA CATAGTCAAC TTAACTAAAA AGAAGCTAAT ACAGGTTGAG CATTCCTAAT CCAAAAATCC AGAATCCAAA TTGCTCCAAA ATCTGAAACT TTCTGAATGC TGACCTGATA CTACAAGTAG AAAATTCCAC ATACAAGTAC TTAACACAAA CTTTGTTTCA TGCACAAACT ACTAAAAATA TTGTATAAAA TTAACCTCGA G	120
(2) INFORMATION FOR SEQ ID NO:1072:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 304 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1072:	
GAATTCGGCC TTCATGGCCT ACTTGGGCTC ATTTTATTTG GTGAATTTGA TCCTGGCTGT GGTGGCCATG GCCTATGAGG AGCAGAATCA GGCCACCTTG GAAGAAGCAG AACAAAAAGA GGCCGAATTT CAGCAGATGC TCGAACAGCT TAAAAAGCAA CAGGAAGAAG CTCAGGCAGT TGCGGCAGCA TCAGCTGCTT CAAGAGATTT CAGTGGAATA GGTGGGTTAG GAGAGCTGTT	120 180
440	

GGAAAGTTCT CGAG	TCAGAAGCAT CAAAGTTGAG TTCCAAAAGT GCTAAAGAAT GGAGGTCCCT	300 304
(2) INFORM	ATION FOR SEQ ID NO:1073:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 397 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1073:	
TTATAAGTTG TTTCAGTGGA GGTAAGAAAA ATCTTCATCC CCCTCAGGTT	TTCATGGCCT AAAAAAGCTA ATGTCATAGG TCTTTATATG TGGGCAGGGT TCTAAAGGGC CATCAGGTAG AGTTGGCCTT TTCTGTTGAG GTCCCCTAAA GGTCTTCTCT TTGGGGCCAG TTTCTCTAGA AAACTGGGTC CTGATAGTAG GACAGCTGAG GACCCCAAGA TTTGTATGAT GACTTTTACT TAATCCCTCT TCTCTCATGC CCATCCGGCC CCACCCCCA AATCCTCCTC TGGCTGCTGA CAGTTTTTCC TGTCAGTGA GCTCGAG CTCGAG AGAGGACCTG GGTTCCAGTA GCTCGAG	60 120 180 240 300 360 397
(2) INFORM	ATION FOR SEQ ID NO:1074:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 309 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: gDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1074:	
AGAAGCATGA CTTCAATCTA CCTGGCCCAG	TCTAGACCTG CACCACTGCG ATCCCTACGC CTGAGGAAAT GACAAGATTG ACAGACAACT CCAGATAAAT GTTGACTGTA CACTGAAAGA AGTTGACCTC GAGGAAACTT TGATCCAAAA GCCATGAATA ATTTTTATGA CAACATAGAA TTGTACCACC CAAGCCATCT AAAAAAGACT CCTCAGACCC CTGCACAATT CCCGAAGAAT TAGCGTGACC TCCAAAGTAC AGGCAGACAT CCATGACACC	60 120 180 240 300 309
(2) INFORM	ATION FOR SEQ ID NO:1075:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 243 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1075:	
ATAAATCTTT TTGACTATTG	TTCATGGCCT AGAAAACTAA ACATTTGCCT TTTATAAAGA CTGACAAAAT ATTCTAACCC TATCCCCAAA ACTAGCCAGG CCACACCCCA GATGTTCTTA GGAAGATAGA AAAGGCGTTG TGTTTTTTGT TTTTTTGTTG TTGTTGTCAT TCAGAAGACC AGTGTCTCAG TTCTGTCTTA GTAGTACCAC ACCACGACTC	60 120 180 240 243

- (2) INFORMATION FOR SEQ ID NO:1076:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 598 base pairs(B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1076:

CTCGAGCTGG	GGGCCACTTT	GGCACCTAAC	AAAACCAGAG	AAAACAAGTG	CAACTAAGCA	60
AGCAACTATG	CACATTCCAG	ACATAAAGAT	CATTAATAAA	CGCCTTAATC	TAAGGATCTG	120
TTGGTTCTAA	CGCCAGAAAA	AGAAGTTAAA	TTTTAAAAAA	TATCTAAAAG	AGATTTTAAG	180
TGGGCAAGCA	ATAGAGAAGA	TACCCAACAC	TGAGAAACGG	AAAGGAAAAA	AGACCACCCT	240
AATAACTACT	GCTCATCAAT	ATACATCTAT	AATTCTACCA	GAACAGTATT	AAGAAATGAG	300
AAACGCCAAT	ATTACATAAA	ATAAGGTAAA	AATAACTAAG	CATAGGTTAG	TGTCAGGGGA	360
CCTAGGGTTC	AGACACCCAG	AGTTTTATAT	AAGGATAATT	TGTCCTGAAT	CAAGACCACA	420
CTGTCCTCTC	CTTAAACCTA	ACTGCTACAA	GCAGACACCA	CCTCTTCTGA	CTGGGCTGAA	480
GTGTGGGAAA	CAGTCCAAAA	ATTAGGTATC	ACACCATAAA	CCCTCCACAA	GAGCAACCTT	540
TGCTCTCAAT	TAAGTTGTTG	ACAAAATAAT	TCTCAACTTG	CCTAGGCCTG	CCGAATTC	598

- (2) INFORMATION FOR SEQ ID NO:1077:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 346 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1077:

GAATTCGGCC	AAAGAGGCCT	AGGTGGGTAT	TTGAATGGTT	TTGCTCCAAA	ATTGAACTCA	60
CATTGTTGAT	ATGACATGAA	ACTAGCTGCA	GCAAAAAATC	CAGATACAGT	AGATGAAAAG	120
ACTTGCTTTT	CAGGAGGCAG	CTGGTTGCCA	TTTAAAAAGA	AGATCATTTG	CTTTTCATTC	180
AAGTCTAACA	GAAATCCTAC	TGTATCTCCT	TCTTTCCAGC	ATGGGTGTAT	GTGAGGCTTA	240
CTTCTGGCAT	TGTACCAAAT	CAGCTGCCGG	CAGCCATCAT	ACGCACAGGA	GTATTCATCA	300
TCCCCAATGC	CGTAGCCTTC	ATGATTGAGG	AATTTGCTGT	CTCGAG		346

- (2) INFORMATION FOR SEQ ID NO:1078:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 419 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1078:

GAATTCGGCC	AAAGAGCCTA	GCTCCTGTTA	CCATTATTAT	TATTCATACT	CATATTCATT	60
ACTTCTAACT	TCAAGTGGGC	CATTAGCACT	AACTGGCATA	CCACACTTCT	CTAGTCTATT	120
TATTCTCCTT	GATGACTATT	TCATACCCTT	CCCTCTTTCC	CCAAACTTCC	AACACCTCCT	180
CTTCCCATCA	TTCTCAGCTG	ACGGCCTTGC	TTTCTCCCAT	GATTGGGACT	AGAGAAGCAA	240
TTTGTACGCA	ATTTCCACAA	CCTCCATCAC	ATGTGGCCAC	TCATCTACAT	CTGGATCCAT	300

CTATTTGGCC TTCCCTATTG TTCTTATACA CTCTCCCTGT CTTACTTTAT CTAAGGTCAA

CATCTCCACT CCACTTATGC ACTAGATCCT GGCATTACAC CAGCAATCCT CACCTCGAG	419
(2) INFORMATION FOR SEQ ID NO:1079:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 261 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1079:	
GAATTCGGCC TTCATGGCCT AGCTTATTCT TTTTTCTTTT TCTTTTTTTT TTTTTTTTC GAGACAGGGT CTTCTTTGT CACCACAGGC TGCAGTGCAG	60 120 180 240 261
(2) INFORMATION FOR SEQ ID NO:1080:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 208 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1080:	
GAATTCGGCC TTCATGGCCT ACATTAACAG ATTAATCCAT CTGTATAGGG CTTTTGCTGT TGGATAGAAT TTAAATTGTC TACATAAATA TTTGTTTTAG GACCCTTAGA TTTTATCTGA ATACACAGAT TAGGCTTTAA AAACAGATAT ATATGTCATT TTTGGCTTAA GGAGTTTGGC TAAGTTAGCT TTTCAACTGG TTCTCGAG	60 120 180 208
(2) INFORMATION FOR SEQ ID NO:1081:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 425 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1081:	
GAATTCGGCC TTCATGACTC CTGATTCAGG GGTCAGTTTA CTTCATAAAA AATCATTAGA AAAGGAAGAA TTATGCCAAA GACTTAAAGA ACAGTTAGAT GCTCTTGAAA AAGAAACTA ATCTAAGCTG TCAGAAATGG ATTCTTTTAA CAATCAACTA AAGGAAACTGA GACAAAACCTA CAACACAACAG CAGTTAGCCC TTGAAACGAT TATAAGATC AAACGTGACA AGTGAAGGA AATTGAAAGG AAAAGAATTAG AACTAATGCA GAAAAAAAAA CTAGAAGATGA AGCTGCAAG GAAACCAAAG CAAGGAAAAA AAAACTTATG GAAAGAAAA CTTAGAANGG AGGAAGAAGA AAAACAAAAG CGACTCCAGG AAGCCAAGAC ACCAGNAAAA ATTCCAAGAA GAGGAACGTC TCGAG	60 120 180 240 300 360 420 425
451	

PCT/US98/06956 WO 98/45437

- (2) INFORMATION FOR SEQ ID NO:1082:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 299 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1082:

GAATTCGGCC	TTCATGGCCT	AAGACTTCTT	GCAGGAAAAA	TGAGTGCATT	GAGGATAGTA	60
ACCTGACTTT	CTGACCTGTG	ATTAAATTAT	GATAGTAGTC	AGTCATTTTA	CTCTCCCAGG	120
GTTTGAGGAA	GTGGCCGGTG	AGGACTTGGA	GCCTAGTGAG	GAGTTAGTAG	AGCTGCCCAG	180
GGTGGAGGAG	GCCACAGAGG	ACAGCCCTGG	TGAAGAGAAC	AGTGAGGCCT	TGGATGTGTT	240
GATATCCAGC	AAGGACCTGG	CACTGTCTAG	TGAGGACGAG	GCCTGCACAG	GATCTCGAG	299

- (2) INFORMATION FOR SEQ ID NO:1083:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 444 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1083:

GAATTCGGCC	TTCATGGCCT	AAGTCACTTG	TGTAACGTAG	TTATACTTTG	CTGCATTNTA	60
ATTAACCTTC	AACAGCTATT	AAAGTGGAAT	GTAAGTTAAA	TTTTGAAGGA	AAGGAAATAA	120
ATGTTTTCCA	TATTTCGTCT	TGATTTACTT	TCTGTATGAG	AACAGCTGTG	TTTTTGATAG	180
GTTTATGGTT	TGCATGAGTT	CATATTTAAA	GTGATCCAGG	CCAATGCATG	GCTATTGCTG	240
TAAATCTTGA	TGTTTATTTC	TGCCTTGTAA	AGTTCTATCA	CGGCCTACCT	GGAATTTAAA	300
ATTCAGTAGA	CAAATTAATT	GGTCCTCTGC	ACAACTTTTT	TAATAAGTAG	ATTATTTTAC	360
AAAGAAATTT	GAACAAATTT	AATTGAATCT	TTTGTTTAGC	TTGCCTCTAA	GAACTTTTCT	420
TAATAAAGCT	CCCAAACACT	CGAG				444

- (2) INFORMATION FOR SEQ ID NO:1084:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 268 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1084:

GAGTGAGACT	CCCTCTCAAA	GGAAAAAAA	AAGTTTTCTA	GGATCAAAAT	AGGAAAACAG	60
TTGTTTCAGA	ACTCATGATA	TGAGTCATGA	CTACAACCCA	CCATATTCAG	TAAAACCTCA	120
CCTTGTCCTG	TTGTCTGACA	TTAAGTGTTC	TACGAGATCC	ATACCTGTGA	AATCAGCTCC	180
TCTGGAATGA	CAGATGCTGG	AATAACTGGC	TGGGGCTGAC	TGCCCAAAAG	CCCAGACCCT	240
CGATCCCGTC	CTGTCCGAAT	AACTCGAG				268

(2) INFORMATION FOR SEQ ID NO:1085:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 251 base pairs
  - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1085:

GAATTCGGCC	TTCATGGCCT	ACTTTAAGTG	AACAACANCA	ACAAAAAAGT	TAAGGGTAAG	60
ATGAGGCAGC	TTTTCAGTGG	AAAATACTTG	TCTTGGGGAC	AGTATGTCAT	GTCCCTATAC	120
CTGGTGCCAT	TGATAAGGTT	ATTCATTCAA	CAATATTTAC	TGATCACTGG	CATATGCCAA	180
GCACTCTGCC	AAGTACTAGG	GATATAAACA	TTAGAAAGAC	AAGTTCCTCC	CTTTTCAGTC	240
ACGATCTCGA	G					251

- (2) INFORMATION FOR SEQ ID NO:1086:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 258 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1086:

GAATTCGGCC TTCATGGCCT	AGAGCTTCAC	GGAGGCAAGA	GGGTAATGGA	GTGCCTAAAA	60
AAAGCTCTAA AAATAGCAAA	TCAGTGCATG	GACCCCTCTC	TACAAGTGCA	GCTTTTTATA	120
GAAATTCTGA ACAGATATAT	CTATTTTTAT	GAAAAGGAAA	ATGATGCGGT	AACAATTCAG	180
GTTTTAAACC AGCTTATCCA	AAAGATTCGA	GAAGACCTCC	CGAATCTTGA	ATCCAGTGAA	240
GAAACAGAGC AACTCGAG					258

- (2) INFORMATION FOR SEQ ID NO:1087:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 391 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1087:

GAATTCGGCC	TTCATGGCCT	AATAAAAAGA	ATTATCAAAG	AATTGCAGGG	GAAACCCCAT	60
AGAGAAGACT	CATTCTTAGA	TGAGTATACA	ATCCATGGGG	GTCTTTAGGA	TATTTAACTG	120
ATTTGGGAGA	GGTCGGATAA	AGAAAAAGGA	GCATTAACCT	TGACTATGCC	TTTAGCTCCA	180
GCCGCCTCTT	TAAGAGGAAA	TTGTTGGGCA	GGTGGGGGAA	GGCTAGTCAT	GGAACGAAAC	240
TGTAAGCCAG	ATCGGGTGTG	AGGAGGGGAG	GTGATAAAAG	GATTATAGGG	TGGGAGAGCA	300
CAGGCTGAGG	AAGAATTGGG	ACCTGGCTCA	GCCTGGCAAG	GCACAGCCTG	GGGAGGAGGG	360
GAGAGGTCCT	GTAGAAAAGG	AGGATCTCGA	G			391

- (2) INFORMATION FOR SEQ ID NO:1088:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 368 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1088:

GAATTCGGCC	TTCATGGCCT	AGCCTTCNAA	GTTTGAATGG	CCCTTAGGTT	TTAAGTTATC	60
TATGCAAAGA	TGAANAAGGC	CTTCACATTC	TCAAAGGTGA	CAACTCATAC	CCAGCCATTT	120
GCTTATTTTT	GCCTGCAGAC	CTCCAATGGA	AGTCCGGGCA	CATGGCGGAG	AGCCTCACCA	180
ACATGCCACG	GCACTCCCTC	TACATCATCA	TTGGAGCCCT	CTGCGTGGCC	TTCATCCTTA	240
TGCTGATCAT	CCTGATCGTG	GGGATTTGCC	GCATCAGCCG	CATTGAATAC	CAGGGTTCTT	300
CCAGGCCAGC	CTATGAGGAG	TTCTACAACT	GCCGCAGCAT	CGACAGCGAG	TTCAGCAATG	360
CACTCGAG						368

- (2) INFORMATION FOR SEQ ID NO:1089:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 409 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1089:

GAATTCGGCC	TTATGGCCTA	GTTCATTTAA	CTAATACTTG	TATTAAATCA	CTTCTAAATG	60
CTTATTATAC	CCTGTATTAT	AGTATTATAT	TCTGAGTCTT	AAAGGTGCTT	AATGTGAAGA	120
TTCTCTCTCT	ACATATTCAA	CTCTTACTAA	CTTTTGGCTT	TAGGTAGAAA	TCAGTTAGTG	180
TATTATATGA	TAAAATAGGA	AACTATTTCC	CTAGGGGTAT	AGGTATTCAG	TAGGGAGCTT	240
TGGAGTCTCA	ATGAGCTTCT	TAAAGAAGCA	TTTTTAATGG	TAGGTTTTAG	GGAGAGTTTT	300
TGTAGTAAGA	TAAAGTAGAT	GAGAAAGTGT	TGCCTCTAAA	CAATCAACAA	GCTGGGAATG	360
GGGTGCAGAA	TGAGGAGAAC	CCTAAGCAAT	AGGCAATAAG	AAGCTCGAG		409

- (2) INFORMATION FOR SEQ ID NO:1090:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 359 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1090:

GAATTCGGCC	TTGGCCTAGT	GAGAGAGCGT	CAAAAAAACT	TCCATCTCAG	CCAACCACTG	60
ATACTAGTAC	TGACAAAGAA	AGAACTTCAG	AGGACATGGC	TGATAAAGAA	AAATCTACAG	120
CTGACTCTGG	AGGTGAAGGA	CTGGAAACAG	CCCCAAAGTC	TGAAGAGTTC	AGCGACCTCC	180
CCTGTCCAGT	CGAAGAAATT	AAAAATTACA	CAAAAGAGCA	TAATAATTTA	ATTCTGCTAA	240
ATAAGGATGT	TCAACAGGAA	AGCAGTGAGC	AAAAAAATAA	ATCAACAGAC	AAAGGTGAAA	300
AGAAGCCAGA	CAGCAATGAG	AAAGGAGAAA	GAAAGAAAGA	AAAGAAGGAA	AAGCTCGAG	359

- (2) INFORMATION FOR SEQ ID NO:1091:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 280 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1091:

GAATTCGGCC	TTCATGGCCT	ACATGTTCAT	TCTAAGAAAC	TTAACTCCAT	TTTTAAGCTT	60
TAAGATTCCC	CCGATCCCAA	ATAACCTAAC	ACACCAAAAG	CCTTGCCATT	TCACACATGC	120
TGTTCCTTTG	CTTAGAACCT	TTTCAATGTC	TAGCTCACTC	TGTTTGGGAC	TTCTTTTTTC	180
TTTTCTTTTT	TTTGAGACAG	GGTCTGGCTC	TGTCATCCAG	GCTGGAGTGC	AATGGGGCAA	240
TTTCGGCTCA	CTGCAACCTC	CGCCCTTCCA	GGCTCAAGCG			280

- (2) INFORMATION FOR SEQ ID NO:1092:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 443 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1092:

GGAAAATTGA	GAAAACCATG	AAAGAAAAAG	AAGAACTGTT	AAAGTTAATT	GCCGTTCTGG	60
AAAAAGAAAC	AGCACAACTT	CGAGAACAAG	TTGGGAGAAT	GGAAAGAGAA	CTTAACCATG	120
AGAAAGAAAG	ATGTGACCAA	CTGCAAGCAG	AACAAAAGGG	TCTTACTGAA	GTAACACAAA	180
GCTTAAAAAT	GGAAAATGAA	GAGTTTAAGA	AGAGGTTCAG	TGATGCTACA	TCCAAAGCCC	240
ATCAGCTTGA	GGAAGATATT	GTGTCAGTAA	CACATAAAGC	AATTGAAAAA	GAAACCGAAT	300
TAGACAGTTT	AAAGGACAAA	CTCAAGAAGG	CACAACATGA	AAGAGAACAA	CTTGAATGTC	360
AGTTGAAGAC	AGAGAAGGAT	GAAAAGGAAC	TTTATAAGGT	ACATTTGAAG	AATACAGAAA	420
TAGAAAATAC	CAAGCTTCTC	GAG				443

- (2) INFORMATION FOR SEQ ID NO:1093:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 256 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1093:

GAATTCGGCC	TTCATGGCCT	ACCTCCATTG	TATATTAACA	TTTATCATAA	TTATTATTTG	60
CTCATTCAAA	AAATATTGCT	CTGATATGGT	ATTGAATATT	CCTCACATAG	GAAAATATGA	120
ACAGTTTATT	TGCCACCCAG	ATGGTTTGGA	AGCCTATACC	CTCCAAGACA	TTGAGAAAAG	180
AAAAATCTTT	CTCTCAGGAG	AGAGAATGAG	TGCCAAGCAA	TGGGAGAAGC	CCCTTAAAAA	240
ACCATCAGAT	CTCGAG					256

- (2) INFORMATION FOR SEQ ID NO:1094:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 454 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1094:

GAATTCGGCC	TTCATGGCCT	AAGCTGTTAG	TGATTCTGAC	ACCCTTGGAC	CTCCAGGAGT	60
AGCTCCTCCT	GCCACGAGAG	GACTCTGGCT	TTTCTAATAA	GGAAGGTTCT	GGCCAATCAG	120
TCCAAGAAAG	GCCCGGATTC	TCTTCCAAGG	TGTTGTCTCT	GCAGAAATGT	TCCTCAGGGT	180
GGAAGGTGCT	GCTGCAGCAA	GGGATGTCCC	CTGAGTTTTC	AGGTATGTAG	TCTGTGGCTG	240
CAGCAGGTGA .	ACACTCCTCA	CACTCCCATT	TCTTACTGTT	AGATCTAAGA	GAGGAGCAGT	300
CCCTGTGGGT	TCCGTGGGAT	CCGCATGTAG	CACACAGAAT	GAGGCACCAC	CTCCCTTCAT	360
CCTCAAAGCT	GTCTCTGCCT	TGTTCATACA	GACAGATGGG	GGCATCACAG	TGCTGATAGC	420
GCTGATATAA	GTCTGAGAAA	GCCCCTGGCT	CGAG			454

- (2) INFORMATION FOR SEQ ID NO:1095:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 449 base pairs
    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1095:

GAATTCGGCC	TTCATGGCCT	AGTGATCTCA	TCTCTCCGTC	CATGGGCGAA	AAAACAGCCA	60
TCACCAGGCC	ATTCACGCTT	TGTGCTTTTG	TTAGCAGAGC	CCAGGCAGCC	CTGCAGCCCA	120
CATCTAGGGT	ACAAACGGAA	CGGCGCGTT	TTCCTTGTAT	CATTTAGAGG	AAATTTTTGA	180
GCTGAACAGT	ATTTTTTTC	TCCCTCTCTC	TCTCTCTGAA	ATATTGCTGA	GATTTAAAGG	240
AGGACGAAGA	CAACAGATTC	ATAGCTGGGT	CTTGCTGTTT	TCCTGACGCT	GACCACAGCG	300
GATCTAGTTT	CTCTGCAGAA	GACAGCAAGA	TGCCCCAGGG	AATGTTTGTG	AAAAAGGATG	360
ACTGGATGGG	AAGCAAGCTG	AAGAAAAAGA	AGGAAAGAAA	GAGAGAAATC	AGTAAATCAC	420
CACACAAGAG	GTGGAGAAGA	GGACTCGAG				449

- (2) INFORMATION FOR SEQ ID NO:1096:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 166 base pairs (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1096:

·					
GACTGGCCGC AAGGGACGGG	TTGTGAGCAA	TGATGATGGA	AGCATATCTT	ATGAGTCAAG	60
ATCTGAACTT GATGTGCCTG	TGGAAATACT	AAACATCACA	GAAAAACAAC	GATTTATGGA	120
TGGAGATAAG AATATTGCTA	TCATCTCAGA	AGCTGCCATG	CTCGAG		166

- (2) INFORMATION FOR SEQ ID NO:1097:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 501 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1097:

GAATTCGGCC TTCATGGCCT ACATTATTTA CACCTGTCCC AGACTTTGAT TCAGGAACT	4 60
ATGCTGCAAA GCAAGGACTA TGATGGAAAA TGCTCACTGC AAGAATGGTA GCTGCAGCAA	120
GATCAAGATC CCAGAAAGCA GTGGCCAAGG CACTCACTGT AGACTTTAGT GCCTGCAGCA	180
TCTGGTGCAA GCTACACTGT CTACGCCCAG GAACACAGCA GCAGCATCCG GCCTGGGCCA	4 240
ATTCTGTGTA AGATTTGATG CGCTGTCCCT GGCTGCAGTG CCTGCAGACA TCTCTCTCT	300
GCCCTTCTAA CAATTTCACA GCAACTCAAC ATCTTTAAAA ATTTATTAGC CAACCAAAA	360
CAGCTTCTGT GGCATGCAAG TAAAAACCCA GGCTGATATG TCTGAATACA GAAGATTTA	420
ATTAGTTCCT TAGAGTCAAT AATCCATACA GACTCTATTC TAGCTTCTTT GTGAAGTGG	480
TAAGAATTCC TCTGCCTCGA G	501

- (2) INFORMATION FOR SEQ ID NO:1098:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 282 base pairs
    - (3) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1098:

GAATTCGGCC	TTCATGGCCT	ACTTCAAAAA	CATATATTAA	TATTTTTGTA	CCACGTAAGT	60
TCATCAGAAG	CCTGACTTTA	ATCTCTGATT	TATTATATTT	GAACACTGTG	AAGAAGCAGT	120
TTAACACTGA	ACGAAAGTGT	CGTAATGCAG	CTTTCAAAGT	GGCCATTAAA	GACAGATCTC	180
TGCTTTTCTA	TTAGTACATT	TTCTAAGATG	ACTATCATTG	CCATTGTAGT	CAGCTTTGTG	240
TACCTTTATA	GAGATTCCAG	TATAAACCCA	GAAACGCTCG	AG		282
	TCATCAGAAG TTAACACTGA TGCTTTTCTA	TCATCAGAAG CCTGACTTTA TTAACACTGA ACGAAAGTGT TGCTTTTCTA TTAGTACATT	TCATCAGAAG CCTGACTTTA ATCTCTGATT TTAACACTGA ACGAAAGTGT CGTAATGCAG TGCTTTTCTA TTAGTACATT TTCTAAGATG	TCATCAGAAG CCTGACTTTA ATCTCTGATT TATTATATTT TTAACACTGA ACGAAAGTGT CGTAATGCAG CTTTCAAAGT TGCTTTTCTA TTAGTACATT TTCTAAGATG ACTATCATTG	TCATCAGAAG CCTGACTTTA ATCTCTGATT TATTATATTT GAACACTGTG TTAACACTGA ACGAAAGTGT CGTAATGCAG CTTTCAAAGT GGCCATTAAA	GAATTCGGCC TTCATGGCT ACTTCAAAAA CATATATAA TATTTTTGTA CCACGTAAGT TCATCAGAAG CCTGACTTTA ATCTCTGATT TATTATATTT GAACACTGTG AAGAAGCAGT TTAACACTGA ACGAAAGTGT CGTAATGCAG CTTTCAAAGT GCCATTAAA GACAGATCTC TGCTTTTCTA TTAGTACATT TTCTAAGATG ACTATCATTG CAGTTGTAGT CAGCTTTGTG TACCTTTATA GAGATTCCAG TATAAACCCA GAAACGCTCG AG

- (2) INFORMATION FOR SEQ ID NO:1099:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 266 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1099:

GAATTCGGCC	TTCATGGCCT	AGGAAACTTT	TCAAAGAAGT	AGTCCACGAG	AACTACCTTG	60
AAAGAGCAAA	ACCAGCCAGG	TGCAGTGGCT	CACGCCCATA	ATCCCAGCAC	TCTGGGAGGC	120
CCAGGTGGGT	GGATCTCGTG	AGGTCAGGAG	TTCAAGACCA	GCTTGGCCAA	CATGGTGAAA	180
CCCCATCTCT	GCTGAAAATA	CAAAAGTTAG	CTGAAAATAC	AAAAGTGGCA	CATGCCTGTA	240
ATGCCAGCTA	CCGGGAAAGG	CTCGAG				266

- (2) INFORMATION FOR SEQ ID NO:1100:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 310 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1100:

CTCGAGCGTA	TCCCAGAACT	TAAAGTATAA	TAATAATAAT	AATAATAATA	ATAATAATAA	60
TAATAAAACC	TTCCAACAAG	CTTCCTTTCC	ACCACAGGAA	ATCCTGTTGG	GAGTTCCCCC	120
TGAACCAAAA	AAAAAAAAAG	ATAGAGTATA	AAACATACAC	TTTTCAGGAA	TGCTTATTGG	180
GTAATGTAAG	ATAACACCTC	AAAATGAAAC	TCAGAATTTT	ATTTTATTTT	ATTTTTTGAG	240
ATGGAGTCTC	ACCTAGGCTG	GAGTTCAGTG	TGGTAATCTT	GGCTCACTGT	AGGCCATGAA	300
GGCCGAATTC						310

- (2) INFORMATION FOR SEQ ID NO:1101:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 367 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1101:

GCGATTGAAT	TCTAGACCTG	CCTCGAGTGT	ACCTCATTCT	GCCATCTCTG	ATATTATGTC	60
ATCTGATCAA	GAAACTTACT	CTTGTAAACC	TCATGGACGG	ACTCCACTTA	CCTCAGCTGA	120
TGAGCATGTA	CATTCCAAAC	TGGAAGGAAG	TAAAGTAACG	AAATCTAAGA	CTTCTCCGGT	180
GGTATCTGGT	TCATCTAGTA	AATCAACCAC	CCTTCCAAGG	CCACGACCTA	CCAGGACTTC	240
CCTCTTGCGC	AGAGCACGAC	TTGGTGAAGC	TTCAGACAGT	GAACTTGCTG	ATGCTGACAA	300
AGCATCTGTT	GCTTCTGAAG	TATCCACAAC	AAGTTCTACA	TCAAAACCTC	CCACAGGAAG	360
GCTCGAG						367

- (2) INFORMATION FOR SEQ ID NO:1102:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 368 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1102:

GAATTCGGCC	TTCATGGCCT	AAGAAAGCAA	GAAAGCACGA	AAGCAATCAA	GCAAGAAAGC	60
AAGCAGGAAA	GAAACAAAAG	AAAGAAAGAA	NGCGAGAAAA	CAAGAAAGCA	CGAAAGCAAG	120
CAAGCAAGAA	AGCAAGCAAG	AAAGAAACAA	AAGAAAGAAA	GAAAGAAAGN	AAACAGGAAA	180
GCAAGAAAGC	ACGAAAGCAA	GCNAGCAAGC	AAGAAAGCAA	GCAAGAAAGA	AACAAAAGAA	240
AGAAAGAAAG	AAAGAAAGAA	AAAGAAAACA	GGAAAGCAAG	AAAGCACGAA	AGCAAGCAAG	300
CAAGCAAGAA	AGCAAGCATG	AAAGAAACGA	AAGAAAGAAA	GAAAGCAAGA	AAACGGGAAA	360
GACTCGAG .						368

- (2) INFORMATION FOR SEQ ID NO:1103:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 328 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1103:

GAATTCGGCC TTCTGGCCTA GAAACCCGTG ACACACACA ACACACCTGC ATAGATTTTT CCCAAGCACA CGATATGCAC GTGGATACAC AGACTTACAA GCACAGGGCC ACGTGCAGAC AGACACAGAC CCTGTCTGCA CCACAAACAT ACCACACACA GCCACACACA CAGAAGCCAA ACATCCTCGC ATAGGTGGAT ACAAGCACAG ACTCACATAC ACATATGCGA TACACATATG GATACATACA CAGAGTACCC CCACAAACAC ACAGACACAC ACGGGCAGAG ACAGACAG	60 120 180 240 300 328
(2) INFORMATION FOR SEQ ID NO:1104:	
(i) SEQUENCE CHARACTERISTICS;  (A) LENGTH: 246 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1104:	
GAAAAAACT GAGTTAATGG CCATGACTAG ATGGGAGGTC AGATTCGCCG TTATATCCTC TCTGTTTTGC AGTTTAGACA CAACTGACCA GCATTGTTAA AATGGAGATC ATACGGCTGG TAGAACAGAC TCTTTGTGGC CCAAAATTAG CAAATTATAA ATAGAATCTA AAGCCATCCC AGGCAAGGGT TAAGTTATGC ACCCCTACAC TTAAAGAATA AACTATGTTG GCCGGGCCAA CTCGAG	60 120 180 240 246
(2) INFORMATION FOR SEQ ID NO:1105:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 298 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1105:	
GAATTCGGCC TTCATGGCCT ACGATCAGAA AGAAAACACA GATCTCGAAG TCGGGATCGA AGAAGATCAA AAAGCCGGGA TCGAAAGTCA TATAAGCACA GGAGCAAAAG TCGGGACAGA GAACAAGATA GAAAATCCAA GGAGAAAGAA AAGAGGGGAT CTGATGATAA AAAAAGTAGA GAAAGAAGGC GGAGCAGAAG TAGAGATCGA CGAAGAAGCA GAAGCCATGA TCGATCAGAA AGAAAACACA GATCTCGAAG TCGGGATCGA AGAAGATCAA AAAGCCGGGA AGCTCGAG	120 180
(2) INFORMATION FOR SEQ ID NO:1106:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 211 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1106:	
GAATTCGGCC AAAGAGGCCT AGGGATGGAT GGTTCAGCTG CTAGAATTTC GATGCAGGAC	60

120 180

211

TTCTTCAAAA TTGAGTGGAT GATGCCTTGC AGAGCCTGAA AGCCGTCATT CACGGGAAAC ACATGATCCT TACTGTCCGC AATCCGGGCC AGCTGTGTCT CATTGAAATC TTTCACACCA

ACACAGTAAA CAATTGCACC AAGATCTCGA G

(2	) INFORMATION FOR SEQ ID NO:1107:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 269 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1107:	
TC TC GT	ATTCGGCC AAAGAGGCCT ACCTGCTTGA ATTGGGGCCC CTTGTGAAGC TGCTGCCGCA TCTTCCAT TCGCTGCTTC CGGTACTGCT GCAGAAACTC TTCATCATCT TGGTCCTCAT ATTATGGC AAACTCCTTC AGAGTCATCT TCCCACTGAT CTTCTCCTGG AGGTCTTTCT TTCTGTTG CTCCTCCTCT TCATCCAGAT GGGACCTGCA AGTCATTGAC AGCTTCTTGA AGCCTTTC CATCTCCGG CAACTCGAG	60 120 180 240 269
. (2	) INFORMATION FOR SEQ ID NO:1108:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 133 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: CDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1108:	
GT'	ATTCGGCC AAAGAGGCCT ATGAAAATTG ACTGCAATTA GTAAAGTTGG TATAACGTAC TCCCAGTT GTGCTATTTA GAATTATGAT AGTATTATGC TCCTACTTTT CTTTGATATT GTAGTCTC GAG	60 120 133
(2	) INFORMATION FOR SEQ ID NO:1109:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 123 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1109:	
	ATTCGGCC AAAGAGGCCT AGCTTTTCT AATCATAAAT TATATGACCT TTACAGAAAA TAGAAAAT ACAGAAAAAC TGAAAAGTTA CACATGGTAC AACTCACAAC CACAATCCTC G	60 120 123
(2	) INFORMATION FOR SEQ ID NO:1110:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 240 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1110:

GAATTCGGCC	AAAGAGGCCT	AGTGTTCCAG	ATCCTACGGC	TTATGAGGAT	TTTCCGAATT	60
CTAAAGCTTG	CCCGGCACTC	GGTAGGACTT	CGGTCTCTAG	GTGCCACACT	GAGACACAGC	120
TACCATGAAG	TTGGGCTTCT	GCTTCTCTTC	CTCTCTGTGG	GCATTTCCAT	TTTCTCTGTG	180
CTTATCTACT	CCGTGGAGAA	AGATGACCAC	ACATCCAGCC	TCACCAGCAT	CCCCCTCGAG	240

- (2) INFORMATION FOR SEQ ID NO:1111:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 264 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1111:

GAATTCGGCC AAAGAGGCCT	AGGTGGGGAG	GGGAGGGGAC	AGGAGAAATG	AAATACCTTC	60
ACCGAGAACT CAGCAGCTGC	CACCGCAGCT	GCCTCCTCAG	GATCCGGTCG	TCGGGGATAG	120
GGAAGGGAGG GGAAAGGGGA	ACGGAAAACA	AAAAAAAGGG	GGAGGGAAGG	GGGAGGAAGG	180
AGTCGGGGAC GGCCTCAAAC	TCAGCTCAGA	GGAGTCGCTG	CTGCAGCCGC	CACTCGGTAC	240
CCGCTGCTAG GCCTCTTTGC	CGAG				264

- (2) INFORMATION FOR SEQ ID NO:1112:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 519 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1112:

GAATTCGGCC	AAAGAGGCCT	AAATATTAGA	AAATGTATAT	TATAGAACAT	GATATATATT	60
TACATTCATC	TCTGTATTCT	CTCAGCTGTT	GTTAGAAGGA	CAGAATGTTA	AACTTTATCT	120
TAATTAGTAT	ACTAGAAAGG	GCAGTATAAT	ACTGTTTTAA	AGTGAAGGCA	TGACTGAAAC	180
TTAAAAAT	CATAAGGCTT	AGCTAGAGGC	AGAGTAACGT	GTTTTTGTTC	ATTGGGCTTC	240
CTTGTACTTA	GTTTTTTCAT	TTAATAATTC	AAACCAACAC	AAAAAATTTT	ATAATTCAGA	300
TGAGACTGAG	CCATATCTGC	AGTAAGAGAA	ATATTTCTTA	ATGTTTTGGT	TACTTATGAT	360
AGAGTACTTT	TCTTGATACT	GTTAACTTTG	TGCTTTTTAA	AAAAAGTGAT	TCTCTAACAG	420
ACCTCTTAAA	TTGTGACATG	AAGGTATGTA	ATTAGATTTC	AGAAATTGGT	TTATTAGTGA	480
GGAATTTTTA	TCAATAAATG	TCATGGGGCG	GCGCTCGAG			519

- (2) INFORMATION FOR SEQ ID NO:1113:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 562 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1113:

GTTGGTATCC	CAAATTCACA	CATTCAAAAG	CAAAGCCATT	TCTCACCTTC	60
CTTGTAATTC	CTAATATCCT	GACTCCAATC	CATTCTTTAT	TTTCTATTCC	120
CACAGAATCG	AAACTTTTGT	TATGAGCTCT	TACATGGTGT	ATCATCAATA	180
ACAGGAGTTT	TTTTTAAAAA	AAATCCTCAT	CATTCCTCTT	CAATTCAAGA	240
CTTCCAGTCT	ATACAAGATA	TATTAAGGCT	CAACTTACAG	TTCCAGTCTC	300
CCTCCACCTT	CCCAAACCCT	CTGTATTCTA	GCCAGAGCAT	ACCTGCATTC	360
ACATGTGTCC	TTGCTCACAC	TGTCCCTTTG	GTTGACCTAG	CTTCAATTCC	420
GCAGTTATGT	GTCTACTAAG	CAGCAATGTG	AAATGTCTTT	ATTGTAGGTC	480
TAAAGTCATG	GCCCGGTGCA	GTGGCTTGGG	CCTGTAATCC	CAGCACTTTG	540
TTGGCCGAAT	TC				562
	CTTGTAATTC CACAGAATCG ACAGGAGTTT CTTCCAGTCT CCTCCACCTT ACATGTGTCC GCAGTTATGT TAAAGTCATG	CTTGTAATTC CTAATATCCT CACAGAATCG AAACTTTTGT ACAGGAGTTT TTTTTAAAAA CTTCCAGTCT ATACAAGATA CCTCCACCTT CCCAAACCCT ACATGTGTCC TTGCTCACAC GCAGTTATGT GTCTACTAAG	CTTGTAATTC CTAATATCCT GACTCCAATC CACAGAATCG AAACTTTTGT TATGAGCTCT ACAGGAGTTT TTTTTAAAAA AAATCCTCAT CTTCCAGTCT ATACAAGATA TATTAAGGCT CCTCCACCTT CCCAAACCCT CTGTATTCTA ACATGTGTCC TTGCTCACAC TGTCCCTTTG GCAGTTATGT GTCTACTAAG CAGCAATGTG TAAAGTCATG GCCCGGTGCA GTGGCTTGGG	CTTGTAATTC CTAATATCCT GACTCCAATC CATTCTTTAT CACAGAATCG AAACTTTTGT TATGAGCTCT TACATGGTGT ACAGGAGTT TTTTTAAAAA AAATCCTCAT CATTCCTCTT CTTCCAGTCT ATACAAGATA TATTAAGGCT CACCAGAGCAT ACATGTGTCC TTGCTCACAC TGTCATCTT GTTGACCTAG GCAGTTATGT GTCTACTAAG CAGCAATGTG AAATGTCTTT TAAAGTCATG GCCCGGTGCA GTGGCTTGGG CCTGTAATCC	GTTGGTATCC CAAATTCACA CATTCAAAAG CAAAGCCATT TCTCACCTTC CTTGTAATTC CTAATATCCT GACTCCAATC CATTCTTAT TTTCTATTCC CACAGAATCG AAACTTTTGT TATGAGCTCT TACATGGTGT ATCAATCAATA ACAGGAGTTT TTTTTAAAAA AAATCCTCAT CATTCCTCTT CAATTCAAGA CTTCCAGTCT ATACAAGATA TATTAAGGCT CAACTTACAG TTCCAGTCTC CCTCACCTT CCCAAACCCT CTGTATTCTA GCCAGAGCAT ACCTGCATTC ACATGTGTCC TTGCTCACAC TGTCCCTTTG GTTGACCTAG CTTCAATTCC GCAGTTATGT GTCTACTAAG CAGCAATGTG AAATGTCTTT ATTGTAGGTC TAAAGTCATG GCCCGGTGCA GTGGCTTGGG CCTGTAATCC CAGCACTTTG TTGGCCGAAT TC

### (2) INFORMATION FOR SEQ ID NO:1114:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 435 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1114:

GAATTCGGCC	AAAGAGGCCT	ATTATTGCTA	TCGCCCTCCT	TTCCCTTATT	GCCTCCCAGG	60
CAAGCAGCTG	GTCAGTCTTT	GCTCAGTGTC	CAGCTTCCAA	AGCCTAGACA	ACCTTTCTGT	120
AGCCTAAAAC	GAATGGTCTT	TGCTCCAGAT	AACTCTCTTT	CCTTGAGCTG	TTGTGAGCTT	180
TGAAGTAGGT	GGCTTGAGCT	AGAGATAAAA	CAGAATCTTC	TGGGTAGTCC	CCTGTTGATT	240
ATCTTCAGCC	CAGGCTTTTG	CTAGATGGAA	TGGAAAAGCA	ACTTCATTTG	ACACAAAGCT	300
TCTAAAGCAG	GTAAATTGTC	GGGGGAGAGA	GTTAGCATGT	ATGAATGTAA	GGATGAGGGA	360
AGCGAAGCAA	GAGGAACCTC	TCGCCATGAT	CAGACATACA	GCTGCCTACC	TAATGAGGAC	420
TTCAAGCCCC	CTCAG					435

### (2) INFORMATION FOR SEQ ID NO:1115:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 477 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1115:

GAATTCGGCC	AAAGAGGCCT	AGTGCCTAGA	TTGATCGGTA	TAAGGCTCAC	TCTCCCGCCC	60
CCCAAAGTGG	TTGATCGTTG	GAACGAGAAA	AGGGCCATGT	TCGGAGTGTA	TGACAACATC	120
GGGATCCTGG.	GAAACTTTGA	AAAGCACCCC	AAAGAACTGA	TCAGGGGGCC	CATATGGCTT	180
CGAGGTTGGA	AAGGGAATGA	ATTGCAACGT	TGTATCCGAA	AGAGGAAAAT	GGTTGGAAGT	240
AGAATGTTCG	CTGATGACCT	GCACAACCTT	AATAAACGCA	TCCGCTATCT	CTACAAACAC	300
TTTAACCGAC	ATGGGAAGTT	TCGATAGAAG	AGAAAGCTGA	GAACTTCGGA	AAAGGCTCAT	360
CTGTCACCCT	GGAGAAGGGA	AACTGTACTT	TTCCCTGTGA	GGAAACGGCT	TTGTATTTTC	420
ጥርጥርጥልልጥልል	AATGGGGGTT	CTTTGGAATT	TGATAAGCCT	<b>ΔCGCCTCTTT</b>	GGCCGAA	477

- (2) INFORMATION FOR SEQ ID NO:1116:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 620 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1116:

GAATTCGGCC	AAAGAGGCCT	AAGATGAAGC	CCAACATCAT	CTTTGTACTT	TCCCTGCTCC	60
TCATCTTGGA	GAAGCAAGCA	GCTGTGATGG	GACAAAAAGG	TGGATCAAAA	GGCCGATTAC	120
CAAGTGAATT	TTCCCAATTT	CCACACGGAC	AAAAGGGCCA	GCACTATTCT	GGACAAAAAG	180
GCAAGCAACA	AACTGAATCC	AAAGGCAGTT	TTTCTATTCA	ATACACATAT	CATGTAGATG	240
CCAATGATCA	TGACCAGTCC	CGAAAAAGTC	AGCAATATGA	TTTGAATGCC	CTACATAAGA	300
CGACAAAATC	ACAACGACAT	CTAGGTGGAA	GTCAACAACT	GCTCCATAAT	AAACAAGAAG	360
GCAGAGACCA	TGATAAATCA	AAAGGTCATT	TTCACAGGGT	AGTTATACAC	CATAAAGGAG	420
GCAAAGCTCA	TCGTGGGACA	CAAAATCCTT	CTCAAGATCA	GGGGAATAGC	CCATCTGGAA	480
AGGGAATATC	CAGTCAATAT	TCAAACACAG	AAGAAAGGCT	GTGGGTTCAT	GGACTAAGTA	540
AAGAACAAAC	TTCCGTCTCT	GGTGCACAAA	AAGGTAGAAA	ACAAGGCGGA	TCCCAAAGCA	600
GTTATGTTCT	CCAAACTGAA					620

- (2) INFORMATION FOR SEQ ID NO:1117:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 158 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1117:

GAATTCGGCC	AAAGAGGCCT	AGACCTGCCA	CATTTGTTAA	CATTTTTCCA	TTTCTAAACC	60
ATCCTTAAAG	AAAATCATAT	ATGGGGTCAC	ACCATCCTCA	CGGTAGTCCA	ATAGAGÇAAC	120
CATGCCATCT	GGATTCATGT	TTTCACCAAA	CCCTCGAG			158

- (2) INFORMATION FOR SEQ ID NO:1118:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 410 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1118:

GCACTGCTTC	TGTTAAAGTC	ACTGACCTTA	ACAGTTTAGA	ACTAGATAAA	GGAAATTTTG	60
TGGTTGACCA	AATGTGTGAA	ATAGGTAAGC	CAGAACCATT	GAATGAGGAG	GAAGCAAGGG	120
GTGTGGTTGA	GAATTATAAT	GATGAAGAAG	TGTCAATTAG	AGTTGGTGGA	AATACACAGC	180
CAAGTAAAGT	TTTGAACAAA	AAAAATGTAG	AAGCTATTGG	ACTTCTTGGA	GGACAAAAGA	240
GCAAAGCAGA	TTATGAGCTA	TACAACAAAG	CCTCTAATCC	TGATAAGGTT	GCTAGTACAG	300
CGTTTGCTGA	AAATAGAAAT	TCTGAGACTA	GTGATACTAC	TGGGACCCAT	GAATCTGATA	360
GAAACAAGGA	ATCCAGTGAC	CAAACAGGCA	TTAATATTAG	TGGACTCGAG		410

- (2) INFORMATION FOR SEQ ID NO:1119:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 452 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1119:

GAATTCGGCC	TTCATGGCCT	AGTTGCCCTA	ATTTGCAGCC	GAACTTGGAA	GCCACTGTAT	60
CCAATGGACC	TTTTCTGCAG	CTTTCTTCCC	AGTCTCTTAG	CCATAATGTT	TTTATGTCCA	120
CCAGTCCTGC	ACTTCATGGG	TTATCATGTA	CAGCAGCAAC	TCCGAAGATA	GCAAAATTGA	180
ATAGAAAACG	ATCCAGATCA	GAGAGTGACA	GTGAGAAAGT	TCAGCCACTT	CCAATTTCTA	240
CCATTATCCG	AGGCCCAACA	CTGGGGGCAT	CTGCTCCTGT	GAÇAGTGAAA	CGGGAGAGCA	300
AAATTTCTCT	TCAACCTATA	GCAACTGTTC	CCAATGGAGG	CACAACACCT	AAAATCAGCA	360
AAACTGTACT	TTTATCTACT	AAAAGCATGA	AAAAGAGTCA	TGAACATGGA	TCCAAGAAAT	420
CTCACTCTAA	AACCAAGCCA	GGTTATCTCG	AG			452

- (2) INFORMATION FOR SEQ ID NO:1120:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 592 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1120:

GAATTCGGCC	TTCATGGCCT	ACATGAATCT	ACTTCTGATC	CTTACCTTTG	TTGCAGCTGC	60
TGTTGCTGCC	CCCTTTGATG	ATGATGACAA	GATCGTTGGG	GGCTACATCT	GTGAGGAGAA	120
TTCTGTCCCC	TACCAGGTGT	CCTTGAATTC	TGGCTACCAC	TTCTGCGGTG	GCTCCCTCAT	180
CAGCGAACAG	TGGGTGGTGT	CAGCAGGTCA	CTGCTACAAG	TCCCGCATCC	AGGTGAGACT	240
GGGAGAGCAC	AACATCGAAG	TCCTGGAGGG	${\tt GAATGAACAG}$	TTCATCAATG	CAGCCAAGAT	300
CATCCGCCAC	CCCAAATACA	ACAGCCGGAC	TCTGGACAAT	GACATCCTGC	TGATCAAGCT	360
CTCCTCACCT	GCCGTCATCA	ATTCCCGCGT	GTCCGCCATC	TCTCTGCCCA	CTGCCCCTCC	420
AGCTGCTGGC	ACCGAGTCCC	TCATCTCCGG	CTGGGGCAAC	ACTCTGAGTT	CTGGTGCCGA	480
CTACCCAGAC	GAGCTGCAGT	GCCTGGATGC	TCCTGTGCTG	AGCCAGGCTG	AGTGTGAAGC	540
CTCCTACCCT	GGAAAGATTA	CCAACAACAT	GTTCTGTGTG	GGCTTCCTCG	AG	592

- (2) INFORMATION FOR SEQ ID NO:1121:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 304 base pairs

    - (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1121:

GAATTCGGCT	TCATGGCCTA	AATAATTTTT	ATTCAGAATA	ATAAATCACT	CTTTATCATA	60
GTATCTTCTC	TTCCCTCTTC	CCCTTTAGTT	TGGATAGCCT	AACTCTGAGA	AGTTAACCCT	120
TAAACAGTTT	TCTGGAAGAG	ACTGAATTTC	TGGGTCCTTG	CAGCTGTGAT	GGTTTCAGAG	180
CTCAGACTGA	TCAGGCATCA	AGCTACCCTC	AAGAGTTTCT	GGGCTGGATG	TTTCAGAACA	240
ACATCTACAC	CAGTAAAGTG	TAATAGGTCA	GTTTCAAAAC	GACCAAAAGA	CCCCACCACT	300
CGAG						304

- (2) INFORMATION FOR SEQ ID NO:1122:
  - (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 388 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- . (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1122:

GAATTCGGCC	TTCATGGCCT	AGTGAAACTC	CATTTTTTTA	CTGCTATTAC	TCTGTGTTTT	60
CAGTTTTATG	ATTTGGAATA	CCATGATGGG	AACATCTATA	CTAAGCATTC	CTTGGGGCAT	120
AAAACAGGCT	GGATTTACTA	CTGGAATGTG	TGTCATCATA	CTGATGGGCC	TTTTAACACT	180
TTATTGCTGC	TACAGAGTAG	TGAAATCACG.	GACTATGATG	TTTTCGTTGG	ATACCACTAG	240
CTGGGAATAT	CCAGATGTCT	GCAGACATTA	TTTCGGCTCC	TTTGGGCAGT	GGTCGAGTCT	300
CCTTTTCTCC	TTGGTGTCTC	TCATTGGAGC	AATGATAGTT	TATTGGGTGC	TTATGTCAAA	360
TTTTCTTTTT	AATACTGGTA	ACCTCGAG				388

- (2) INFORMATION FOR SEQ ID NO:1123:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 478 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1123:

AGCAATTCCA	TAAACACATC	CTGGTGTCAT	CACAGCCAAG	GTTTTTAGGT	TGCTATACCA	60
ATGGCTTATT	AAATGAAAAT	GGCACTAAAA	GTTTCTTGAG	ATTCTTTATA	CTCTCTGCCT	120
TCAGCAATCA	ATTCCATTCA	TACATCAGCA	CTCTGCTGGT	TCTGTTTGAA	ATATGTTCTG	180
TATTTAAAAC	TCAAATCTTG	TTGGATCTCT	GCAGGGCTTG	TGACCAATGA	AGTCATATTT	240
GTTGATGGTT	GACAAAGCTT	GCTTCACTCC	ATCAGAGAAT	GACTATCAAT	TTTTTTTTAA	300
CTGTCCTATC	ACGTCCTCTC	CTGTCACCCA	TTTTGAAGAG	TGGCAGAACT	TGAAGTTCAA	360
CTTCCTCTGT	AAATATCCAA	GTATAAAGCC	CAGGAACTTC	TAGAATAACC	CAGATGCGCT	420
TTAATTTTTT	TTAATATGTT	TTGATCACAG	AACTCCTTAG	GCCTCTTTGG	CCGAATTC	478

- (2) INFORMATION FOR SEQ ID NO:1124:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 450 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1124:

GAATTCGGCC	AAAGAGGCCT	AGGAATTCAG	TGCAAACACT	ACTTTGAACT	GTGGTTCCTA	60
ATTTCCACGA	AAGTTTTTCT	CTGTTCTTCT	ATTATGGCAC	TTTTCAGGGT	CTCCCTTGTA	120
CATTTTAGTT	TTTGTGTTTT	TCAGTAAGTG	CCTTGAGATC	AGGGACCGGT	TCTACTGGTC	180
TGTTCCAACC	ATAGTTCCTT	AAACATTGTG	TTCCATTAAT	ATTGGGTGAA	TTGAAATGAA	240
TTTATAGGAA	GCTCCTTAAC	CTGGGGTCCT	CAGACCTCTA	TGGGGTCCAT	GGACAGAATT	300
TGAAGTGGGA	AGGATATATG	AACTTGGATG	GAGGAAAATT	ACTTATTTGT	TTTTTACCAA	360
CCTCTCCTTT	GTAATTTAGC	CATTTGTTCA	ATTATAATGT	AGGCAAATAA	TAAAAAAAA	420
AAAATAAAA	TAAAGGCAGC	TTAGGCCTCT				450

(2) INFORMATION FOR SEQ ID NO:1125:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 550 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1125:

GAATTCGGCC AAAGAGGCCT	ATCCTTAGTG	GATTCCGACT	TCCATGGCCA	CCGTCCTGCT	60
GTCTATATCA ACCAACACCT	TTTCTGGGGT	CTGATGAGCG	TCGGCATCGG	GCGCCTTAAC	120
CCGGCGTTCG GTTCATCCCG	CAGCGCCAGT	TCTGCTTACC	AAAAGTGGCC	CACTAGGCAC	180
TCGCATTCCA CGCCCGGCTC	CACGCCAGCG	AGCCGGGCTT	CTTACCCATT	TAAAGTTTGA	240
GAATAGGTTG AGATCGTTTC	GGCCCCAAGA	CCTCTAATCA	TTCGCTTTAC	CGGATAAAAC	300
TGCGTGGCGG GGGTGCGTCG	GGTCTGCGAG	AGCGCCAGCT	ATCCTGAGGG	AAACTTCGGA	360
GGGAACCAGC TACTAGATGG	TTCGATTAGT	CTTTCGCCCC	TATACCCAGG	TCGGACGACC	420
GATTTGCACG TCAGGACCGC	TACGGACCTC	CACCAGAGTT	TCCTCTGGCT	TCGCCCTGCC	480
CAGGCATAGT TCACCATCTT	TCGGGTCCTA	ACACGTGCGC	TCGTGCTCCA	CCTCCCCGGC	540
GCGGCGGCG					550

- (2) INFORMATION FOR SEQ ID NO:1126:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 381 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1126:

GAATTCGGCC AAAGA	GGCCT AGTTTGCAGG	AAGAAGGCAT	GGGATAGTCT	GAGAACAAAC	60
AGGCACTAAA TGGAG	CAACA TCATCTTGAG	GTGTCAAGCA	GGAGCTGGGA	GACCAGCAGA	120
GACTCCCAAG GCCTT	GCTGC TGTTGGTCTG	CAGGCAGCTC	TGTAGGGCAG	GCTGTTGTCA	180
TTTTGCAAGT GAGCA	AGCAG AAGCCCAGGC	AGGTGAGTCA	TTCACTCCAC	AGTTCATAAC	240
TTGGATTGTG GGTTA	GTTAC ACCTGACTCC	AAAACTTGAC	TTTTTACTAC	TCAGCTATAC	300
TGGCCTCTCA AGAAA	GGCTA GGCCCTAATT	TCTAGACTCT	CTTTTACCAA	TAATACCTGT	360
TGCCACGAAG TAGGC	CTCTT T				381

- (2) INFORMATION FOR SEQ ID NO:1127:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 361 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1127:

~ 2 2 mm.	~~~~	3 3 3 G 3 G G G G G			~~ * * * * ~ ~ ~ ~ ~		60
GAATT	JGGCC	AAAGAGGCCT	ACTCTCAAGG	TGGGCATATG	CAAAACATAA	TCTCTAAATT	60
CTTCA	TACT	AAGAAATACC	TTTGTTTTAC	CCCTAAAATC	AAATGCCATT	TTGGCTGGAT	120
ATAGGA	ATTCT	AGGATTAAAG	CCTTTTTCCA	GCAGAACTTT	GAAGACATTG	CTCCATTTAC	180
TTCTAC	CATC	CAGTGTGTCC	AGTGATAAGT	CTGCTGTCAA	CCTGATTCTT	GTTCCTTGGT	240
AGGTA	ATTTC	TCTTCTCTCT	CTAGAAGCCC	TTATTATTT	CTCTTTATCA	CTAGAATTCC	300
AAAAT:	TCAC	CAAGATGTGT	CTAGGAGTCA	GTCTCTTTTC	ATCAATTTTA	CTAGGTACTC	360

(2) INFORMATION FOR SEQ ID NO:1128:

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 359 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1128:	
GCAGCCAATG GCGGCGCCAG AGGGGAAACN GAGCCTTGCT NACGGGCCCA ACGCTGGGGA GCAGCCAGGC CAGGTGGCGG GCGCAGACTT CGACAGCGAG GACGAGGGCG AGGAATTTGA TGACTGGGAG GACGACTACG ACTATCCCGA AGAGGAGCAG CTCAGTGGTG CCGGCTACAG AGTATCAGCC GCTCTTGAAG AAGCCGACAA GATGTTTCTG AGAACAAGAG AACCAGCCCT GGATGGCGGG TTTCAGATGC ATTATGAGAA GACCCCGTTT GATCAGTTAG CTTTTATCGA AGAGCTTTTT TCACTGATGG TTGTCAATCG TCTGACCGAA GAACCCGGCT GCTCTCGAG  (2) INFORMATION FOR SEQ ID NO:1129:	60 120 180 240 300 359
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 274 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1129:	
GATGGCACCC TCCTCAGAAA GCAGCGTCCC CTCTCACAGT ATGTCCTCCC GACGGGACAC AGACTCGGAT ACCCAGGATG CCAATGACTC AAGCTGTAAG TCATCTGAGA GGAGCCTCCC GGACTGTACC CCTCACCCCA ACTCCATCAG CATCGATGCC GGTCCCCGGC AGGCCCCCAA GATTGCCCAG ATCAAGCGCA ACCTCTCTA TGGAGACAAC AGCGACCCTG CCCTAGAGGC GTCCTCGCTG CCCCACCCG ACCCCTGGCT CGAG	60 120 180 240 274
(2) INFORMATION FOR SEQ ID NO:1130:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 325 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1130;	
GGCTTTCCAC CTTCCCTGCG GAGATGAGGG TGGTGGCCTC CCTTTTTGTC ACCCTTCCAA GGGTCATGCT CGTCTGCTGG CTTTTCTCCA AGATGCTGCC AAAAATGATC TTAA1AAGAC ACAAGCCTGG TTGTGATATT TTCCTGATTC AAGTGTCTCT GTGGTTCTTG GTTGCCTTCA GGAGAGAGTT CAAGCCTCTT ATGGTGGTTT GTGAGGCCAG GCCTGAACTA GCCCCATCGT CTGTTCATTC ACCACCCCAG TATCCCTGCT GCAGGTTTTT AAAGATCTCA TGTCCCTGAT TGCCTGTCAC TGTGTCTGAC TCGAG  (2) INFORMATION FOR SEQ ID NO:1131:	120 180 240 300 325
(a) INFORMATION FOR DEG ID NOTITITE	
467	

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 639 base pairs
  - (B) TYPE: nucleic acid.
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1131:

CTCGAGGATC	CCCGGGGACG	GGACGGGCCG	GGGCTTGGAG	GGGGGTCGGC	TGCCACAGGC	60
TCACATCACG	GCCTCCATAT	GCAGGATCCT	CAGGGCCTCG	GAGATCTGCG	CGCTGGGGTC	120
CATCTGGCCG	TACATGCCCA	CCAGGAAGGC	CCGGTGGAGC	AGCACAGCCG	CGTGCTCTTG	180
GCACAGGAGA	GCGTACTCAG	GCAGGTTCCG	GAGGGCCGTC	TGCACCACCT	CAAAGTCCTG	240
GCTGCCCAGG	CAGTACATGA	ACGTNGGGCA	GGAAAGCGGC	TGCAATGCNG	GGGGCTGTCT	300
GCATGGAGCG	CAGGGCCAGG	CTGAAGGCGA	GGTTGCGGCA	ACACTCCTCG	GCCGAGCTCA	360
TCAGCCGCTG	CAGGTTGGTC	GAGAAGAAGC	TCAGGATCTC	GGGTCTCCGC	CGGGACATCT	420
CGTCTATGTC	ACTCAGAACC	TCCAGCAGAT	CCTCCACCGT	TTGGCCCCGG	GAAAGCCGTT	480
TCATGTAGGG	GGCCATCTCG	GCCGCGGTCA	GAGGGGTGAA	CAGGGAGACG	CTGACCAGGG	540
GCAAGGAGCC	GGCTGAGCTC	TCCTCCTCGC	CCTCTTCGTC	CAGGCCTCGG	TCGGTCCTGT	600
CGTCCCTGCT	GGGCAGGCTG	AGCCCTGCAA	GGAGGGATC			639

- (2) INFORMATION FOR SEQ ID NO:1132:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 448 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1132:

GGTCTGTGGT	CTTGGAGGCT	TAAATTGTAA	AATACATCCC	TTATGGAATC	CTAAATTCCT	60
CTAGGTGTTT	TTGGAAGGCG	CATTTGAGCC	TTGTGAGCTA	AAATGGAATG	GATTTAATAT	120
TTCCTATCTG	GCATTTCCAT	CTTGCCCCTG	GTACACAAGT	CACTGGCCTG	GAACTCAGCC	180
TTGATTCACT	GTCCGTCTTC	ACGGATTAGC	TGTGCTGTTA	TGTTGTCTGT	GCTGCAGATT	240
GGCCCATGTG	GGAAGTCGGG	GGGGACCTGA	TTTCCTGCTT	GGAAGACTTG	GGGGACTGCC	300
GAGCATATCA	AAGTGTTTAT	AGTCACCAAG	TGAACTGCAG	CACAACCATC	TCCTCTCCAG	360
CAAGCCCTGA	AGTCAGTAGT	GCCTGCAGGT	GAAACCAACC	AGCCCTGTGT	TAGAGGAGGA	420
AAAGCGGAGA	TGACGTGGAA	GTCTCGAG				448

- (2) INFORMATION FOR SEQ ID NO:1133:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 372 base pairs
      - (B) TYPE: nucleic acid
      - (C) STRANDEDNESS: double
        (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1133:

GAATTCGGCC	TTCATGGCCT	AGGGCTATGG	CCGGAGCTTG	AGATACGCCG	CTCTGAATCT	60
TGCCGCCCTG	CACTGCCGCT	TCGGTCACTA	TCAACAGGCA	GAGCTCGCCC	TGCAGGAGGC	120
AATTAGGATT	GCCCAGGAGT	CCAACGATCA	CGTGTGTCTC	CAGCACTGTT	TGAGCTGGCT	180
TTATCTCCTC	GGGCAGAAGA	CATCCCATAC	בייי א יויכיתית ביייכי	CTCCACCATT	CTCTCAACAA	240

CAACATCTCG AG

(2) INFORMATION FOR SEQ ID NO:1134:

GGCAGTACAT TTTGGGTTAC CGAGAGCTTT TGCTGGGAAG ACGGCAAACA AGCTGATGGA TGCCCTAAAG GACTCCGACC TCCTGCACTG GAAACACAGC CTGTCAGAGC TCATCGATAT 300 360

<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 452 base pairs</li><li>(B) TYPE: nucleic acid</li></ul>
(C) STRANDEDNESS: double (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1134:
GAATTCGGCC TTCATGGCCT AGCTGGTTCT TTTATTTTGG TGTCTCAGGG ATGTAAAAGA 60 TTTTTAGTGC ATAATATTAA ATGGCAAAAT CAAATTTCCC AACAATATAC AAAATAAAAT
CCCATTTACA AAGGGAAAAG GCTTTATCTA TTTGTATATC TTCTTATATG TATATAAATT 180
CATAGAAAAC TATCTGGAAG TGTATGTAGC AAAGCATTAA CAATGGTTAT CTCTGGGTAT 240 AAGAAGGAAC TAGAACTGAA GAAGATGGTG GTGATAAGGG AAGGTATACC TTTCTTTTTT 300
TTTTATTCTG CTGTGCTTGA GTTTTAAAGA ATGAGAATAT TCATGTATTC CTTGTATAAT 360
TATAACACAG AAAACCTCCT TATTAGGAAT AGGAGGCTGA TTTCTTTTTT AATGACTGAT 420
CTTAGGTCCT TTTTGGGTAT TTCTCCCTCG AG 452
(2) INFORMATION FOR SEQ ID NO:1135:
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 283 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1135:
GAATTCGGCC TTCATGGCCT AGGAGGAGGG AAGGATTGGG AGCAGTGGGG TGTGAGTGGG 60
AGAGGAGGTA GGGAACCAGA TGGGGAGAAT CGAGCCAAGT TCTGGGTTGG AGGAAACTTT 120 CTTATTTAAC TGAGCTGGTG GGTTACATAT CTAATGTTGC AGGTGATGAA TACAGGCTGG 180
GGTAGCCGTC TAAATCCACC GAAAGAAGTA AATGAAAGTG GTTTCTTGTA GGTCGAAAGG 240
TCAAGGTAAA TGGCTGGTTT TTAGGAAACA ACTGATCCTC GAG 283
(2) INFORMATION FOR SEQ ID NO:1136:
(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 264 base pairs (B) TYPE: nucleic acid
(C) STRANDEDNESS: double (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1136:
GAATTCGGCC TTCATGGCCT ACTGGAGACT TGTAATTAGT CTAAGCATAA TATGATTAGG 60
TGGATGAAAT ATTTTGGAGT TTGGTTTTGT TTTAAATGTA AATACTCATG AAAAGTAAAA 12CCATACTGCAC TGTGTCCCTG GGAATATTTT TGTTATCTTT AAAATACTCA GTATTATAGG 18C
CATTATTAA CACAGCCTTA CATTTGCCCG GTTTGACCTG GAGGCCGAAA TGAATTGTGA 240
469

WU 98/45437	PC1/0258/00520	
	CTTATGTCCC AGCTGGGTCT CGAG	264
	(2) INFORMATION FOR SEQ ID NO:1137:	
	(i) SEQUENCE CHARACTERISTICS;  (A) LENGTH: 653 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1137:	
	GAATTCGGCC TTCATGGCCT ACCACGTTTC CTCACCTGTA AAATGGACAC TGCAGCTATG TCTGCTGTTC CACATTGTTG ATAGAACTGG ATGCTGTGGT GACATTTGGG ACACTATCAT GGTGCCTGGG GTGGGTGGGT GCCCAGGCCT GTGGCTTCT GTCTTCATC AAAGAACTTC AGATCCCAGA AAATTAAGAT TCTCAAAACA TAACTGTCGG AAAGGGCTTT TGAATCCACC TTGGTGGCCT CTTCCTGCCT CCAGGGCTCA TGAGATAGGC TGACTTCATA TGAAAGTTTT GAGGATGAGG AAGTCTCTC CCTCTTCAGA TACTGACCCT CTCTCTCTT ATTTCCTTGG TGCCCAGAAT AGGGCTTTG TTATCTTGAA TGAATGAATA TAAACTCACA GGTGTGATCT GAGCCACCTA AAGCCCTCTT TGGGTTCTGC TCAGCTTGAG GGCATCACCT AAAGGCCACT GGCTGCATTT TCCAGGAGGT GTTTTCTAAG CTGTATCTAT ATAGGAATGG GGAGGAAAGC TAAGTCATTG TAGACTGAGA GAAAGGGAAT AAGAGTCTGT TCCAGGACCAG CTAGGGCTGA CAAGCTTAGG CAGCTGGGG CAGAGGGCAC TGAGAATGAG GCCCTAGCTC GAG	60 120 180 240 360 420 480 540 600 653
	(2) INFORMATION FOR SEQ ID NO:1138:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 315 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: cDNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1138:	
	GAATTCGGCC TTCATGGCCT ACAAAAGGTT CTTGATGACC ACCACAATCC TCGCTTAATC AAAGATCTTC TGCAAGACCT AAGCTCTACC CTCTGCATTC TTATTAGAGG AGTAGGGAAG TCTGTATTAG TGGGAAACAT CAATATTTGG ATTTGCCGAT TAGAAACTAT TCTCGCCTGG CAACAACAGC TACAGGATCT TCAGATGACT AAGCAAGTGA ACAATGGCCT CACCCTCAGT GACCTTCCTC TGCACATGCT GAACAACATC CTATACCGGT TCTCAGACGG ATGGGACATC ATCACCATTC TCGAG	120 180 240 300 315
	(2) INFORMATION FOR SEQ ID NO:1139:	
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 304 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	

(ii) MOLECULE TYPE: cDNA

TATATCAGTT TCATCCTCCT GAAAAACTCT TTTCCAGTGT ATCCTGACCT GCTCTAATT' TGACTTGATG CTTTCTGTAT CTGGTGCACA GCTGTTACCT TGGAATCTTC CCTTCATCA' TATTCAGAGT GTTTCTGTAG TTTTTCTCTT GCATTGGATT TTGTGCTTCC TGAATCCTC' CGAG	T 240
(2) INFORMATION FOR SEQ ID NO:1140:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 303 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1140:	
GAATTCGGCC AAAGAGGCCT AGGGTTTTGT TTGGTTTGGT	120 180 240
(2) INFORMATION FOR SEQ ID NO:1141:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 330 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1141:	
GAATTCGGCC AAAGAGGCCT AGTAGCTTAG TTATTGTTTA CTTTGAAGCC CTTTTGCCTC FACTCTCTCC CATATATCTT CTCCTGACAG GGTGAAGTCA CCTATAGCAT TTCCTAGTGT ATGGAAGTAT TAATTTCTTT CTTTACTGGA AGAGCTACTA GCTTTTCTTC ATACAGTTTC CTCTGCTCCA GTTTCATAAG TTTCTTTTTG GCTTGTATCT GTTTAGGATC AGGTGATATG GCTTCATTTC TCATGACTGA AGCCCGGCAA CATAACACTG AAATTCGAAT GGCAGTCAGC AAAGTGGCTG ATAAAACGGA TCATCTCGAG	120 180 240
(2) INFORMATION FOR SEQ ID NO:1142:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 294 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1142:	

60

120

180 240

GAATTCGGCC AAAGAGGCCT AGAGGGGAGC CTGGCCTCTG GCATATTCAT CAAGTATGAG

TTCTGGGGAT GAGTCACTGT AATGATGTGA GCAGGGAGCC TTCCTCCCTG GGCCACCTGC

AGAGAGCTTT CCCACCAACT TTGTACCTTG ATTGCCTTAC AAAGTTATTT GTTTACAAAC AGCGACCATA TAAAAGCCTC CTGCCCCAAA GCTTGTGGGC ACATGGGCAC ATACAGACTC

ACATACAGAC ACACACATAT ATGTACAGAC ATGTACTCTC ACACTCCAGT CGAG

(2) INFORMATION FOR SEQ ID NO:1143:

294

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 331 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1143: GAATTCGGCC AAAGAGGCCT AGTTTTAGTT CAGAATAACA TTAATTTTGA GAGATTGAGG 60 TAAAGAACCT TAACTAATGC TAAGGAGTTT ATTTTGATTA ACATAGGTTA TTCTGACCAC 120 CACCTCTTCC TTCCTTAATC TCCTTAGAAT CTGACAGTCT CAAAGCTGTC ACACAAATTA 180 GACTAATTTT GACACTTTGA AATGAAAACT TCAAGGAAGA AGTAGCCACG GACAGTTATG 240 TTTATAATCA GTAGGTGGCA CTCTTTCCTC AGGTAGCCCC CCATTTTCAC ATGATGTGTT 300 TGAAGGTTAA ATGCCACCAA AAGTGCTCGA G 331 (2) INFORMATION FOR SEQ ID NO:1144: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 508 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEO ID NO:1144: GAATTCGGCC AAAGAGGCCT ACTTCAGCAT GACTACTCAG TTGCCAGCTT ACGTGGCAAT TTTGCTTTTC TATGTCTCAA GAGCCAGCTG CCAGGACACT TTCACTGCAG CTGTTTATGA 120 GCATGCAGCG ATATTGCCCA ATGCCACCCT AACACCAGTG TCTCGTGAGG AGGCTTTGGC 180 ATTAATGAAT CGGAATCTGG ACATTTTGGA AGGAGCGATC ACATCAGCAG CAGATCAGGG TGCGCATATT ATTGTGACTC CAGAAGATGC TATTTATGGC TGGAACTTCA ACAGGGACTC 300 TCTCTACCCA TATTTGGAGG ACATCCCAGA CCCTGAAGTA AACTGGATCC CCTGTAATAA 360 TCGTAACAGA TTTGGCCAGA CCCCAGTACA AGAAAGACTC AGCTGCCTGG CCAAGAACAA 420 CTCTATCTAT GTTGTGGCAA ATATTGGGGA CAAGAAGCCA TGCGATACCA GTGATCCTCA 480 GTGTCCCCCT GATGGCCGTT CGCTCGAG 508 (2) INFORMATION FOR SEQ ID NO:1145: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 461 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1145: GAATTCGGCC AAAGAGGCCT AAATTGCTGG CGGATTTAGA CCGGTAGAAA ACCCGGGATG 60 GTTTATTTTG ATTGAGCCCC CTCTGGGTGG CAGAGAGGAG GCTTGGGCTC TGGGCCCTTT 120 ACGTTTGGAG AAATGGCTTT ATCAGCTCAG TTGAAAGGTT TTTCCCTCTA GCTAGTGAAA 180 GATAAACTTG GAAATGCAGG TTTCTCCAGC GGTTGGTGGT GGGGACAGGG GTCGCCTAGG 240 472

GAACTTGCAG GGGCCGCGGC CTCTGTTGTG CTCTTCTGGA GAGTGCACTG TTTGTGGAAC TTTTCTAGAG TGGCAAAAAC GATCTCCACT GTCGTGAAA GGGCAGTTCC TGAAGTCAGC TCATGGTCCT GGCTCCCCTT CTCCCCAGCA GTGAACTGGG GGTGACTTCC TGATCTGCCC AGCACAGGAG AGCCCCGCAA AGCGCCTGGG AGGCCCTCGA G	300 360 420 461
(2) INFORMATION FOR SEQ ID NO:1146:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 291 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1146:	
GAATTCGGCC TTCATGGCCT ACCATTTTGG ATTGATTTTT GTGTATAGTG TAAGATGAAC CCAATTTCCT TCTTTAGCAT GTGGGAATTC TGTTTTTCTG TCACCCTTTT TTTTTGAGAT GGGGTCTCAC TATGTTGCCC AGGTTGGCCA TGAACTCCTG AGGTCATGG TCCAGCCACA GGACTACAGG CATGTGCCAC TGTGCCTGG TCCAGCAACA GTTGTTGAAG AGACTGTTCT TTATTTACTT ATTGATACCT CTGTGCTCGA G	60 120 180 240 291
(2) INFORMATION FOR SEQ ID NO:1147:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 338 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1147:	
GAATTCGGCC TTCATGGCCT ACCCACCTGC CCACGCCGAC TTGGGAGGAT GGTGGCCTGC AGCGGCCAAG AAGCCAAAAA AAAAATTTT TTTTTTTTCA GATACTGTGC TTGATTTTTG GAGAGGGGAG AGGTGGAAAT TCCTAAATGG CTAATGCACT GTTCCCTCCA GCCCGAATGC CCGAAACATT TTTTCCGAGG ATGAACAGGG GACATCTTTA GGTTTCCAA CTCTTGCTTT GGTGTTTGCC GCAGCATGGA AAACAGGCAC CCCTCGAG	60 120 180 240 300 338
(2) INFORMATION FOR SEQ ID NO:1148:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 385 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1148:	
GCAGGAATCA GATTCACTCA TTAGTAAGCC GCACTCGCTG AAGGGGAGAG CATGAGCAAG GCAGACGTGA GCCACTGCGC CCGGCCTGAA GAGTTTTTGC TAATTGGATA TTAGGGAAAA CCACAGGATG GATTAAGACA AGAGAGGGAA GGTAAGGTTC TAGACAGCAG GATTATGTCT GTTAGTTGGT TTTATGTCAC TTTTCTAGCC AAGCTGTACC ATCCTGTTTT TGTTGGTTGG TGAATGCTTC CAGCTCTTTT CCTCCAGCCC TTGGAAGAGG TGGTCCTATA ATTGTTAAGC	60 120 180 240 300

GCTCTTTGCA GGCGGCTTAC TCGAG

ATCTAGCTAG GGTGATGAGT AGGAATAGCA ATAAGTGACA GGGAAGTTGA AGGCTGCAGG

360

(2) INFORMATION FOR SEQ ID NO:1149:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 303 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1149:	
GAATTCGGCC TTCATGGCCT AGTCACATGA ATGAGAGAAT TCTAAATGCA AGAAATGTGC AAAGGCACAG AAACACAGAA GAGCATGTTG TACAACCTGG CTATAGTTTA GATTTTTGTGT GTGTGCTATG AGAGTGTGCC TGTGCTGTGA GTGTGTGTGT GGGCGCACGC ACGCATTTGT AGGAGGTAGG GAGAAGAGTG CCGCCATAAC ATGAAATGAT ATTGGACCTC AAATGGTATG CTAAGATGTT TGACAATTTT ATTCTAAGCA GTGAGTTTTT AAATTTAGAC ATGCAATCTC GAG	60 120 180 240 300 303
(2) INFORMATION FOR SEQ ID NO:1150:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 419 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1150:	
GAATTCGGCC AAAGAGGCCT AATTGAATTG TATTGGTCTT TTTCTCTTTA ATATTTAGG TGCTTTATTA TATATTAGGA TTATTAGTCC TTAGTTTGTG AAATAAGCTG CAAATATTTT TTCCCCAAATT TTTCTTTTGT CTCTTTGCTT TATTTCTGGT GTTTATTTTT CCCCAGGTGT ACTGTTTTCT ATAGCCAAAT TATTGATCTT TTCTTTAATT GCTTTTTTTGT TCACTCAAAG GAAGGTTTTC ACCACTGAGA GGTTATAAAA TAATTCACTC ATATTTTTAC TCTTTTTTT TGCTTATGTT AATTTTTTGT TTGGAACAAT CTCAAATTCA CAGAAGTGTT GTGAGTACGT TGCAAATAAC TTGTTTTTC CTTATGCATT TCAGAGTAAG TTACCAGTCC GCGCTCGAG	60 120 180 240 300 360 419
(2) INFORMATION FOR SEQ ID NO:1151:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 394 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1151:	
GAATTCGGCC AAAGAGGCCT AGCGGATGGA GTCTTTGACA GTGTTTTTGA TCTCCTGCAG ACGGCTGCTC AGGAACTGT TGACCCGATC CAGTTCCCGG TCGGGCCACT CCAAGAGCCT CTCCCTGGCA GGCCTTGGCT CCGGCTTCC AGAACACGA TTTGCCTGCT TTAGAGCTTC TGCTGCCAAC TGGGCCTTCT CCTTTTCCTT CTTTTCAGC TTGTGCCGGG CCCGCTTGGC GGCCCTGGCG CTGTTGGGGA CTTTGGGCTC CGTGCTGTTG ATGAATTCCA GCAGCTCATC	60 120 180 240 300
474	

GGGGA GGRAG ROMBRAGA A ROGRAS AGA	60 94
(2) INFORMATION FOR SEQ ID NO:1152:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 426 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1152:	
AGCTGTTCCG GCCATGCACC ATAAGAACCG GCCAAGATGC TTAAATTGAG TGATGGAGAA 12 GTCTGCAGCC AACGAAGCCT GTTTTCCTTC CTTTCCTTCC ACTCCCACGC CGCAGTCAGA 16 TTCCTGAATC ATGCTGACGT CATTGCCTCC GTCCCCTACT GCACAGGTGA GCTTGCCCGT 26 GCGCTCCTGA AGCAGGCGCA CGATCTGGGC CTTCTGGGTG GGGGCACATC NGCAGCAGAC 36 TACGGCCGGG CACTGGCAGG CCAGCTCCAT GAACTCGTAC TCATAGTACT TGAGGCAAAC 36 CTCCAGGGAG TCTCCCGAGA TGACCAGGGC ACAATCATGC TTCCTGCGGA AGGCGTTCAG 42	60 20 80 40 00 60 20
(2) INFORMATION FOR SEQ ID NO:1153:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 270 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1153:	
CGGCTTGGAT TATCCCATTT GTTTCTCACA GCCGGTATTT ATTGTCTGCT CCTCTGTGCC 12 AGGTGCTGTG CTCTGGGCAG GGGCACTGCA TGGGCTGCCT GCCCTGGTGG AGCTTGTGGT 18 CTGATGGGTG AGGCTGACC AAGCCCACCC CATTGCCAAC AGGGCCAGGG CAAGAGTACA 24	
(2) INFORMATION FOR SEQ ID NO:1154:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 582 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1154:	
ACACAAGGAA AGCCAAAGCC ATTTGAGGGG GAATAAAGCC AAAAGCCTTT CACCTTATTC 12 GTTCCAAGAA TCTCACCGCC CCCTCCTTAT CCCCCTCCAA AAATAAGCCA TTGCACACAG 18 ACAGGCAGCA TGGCTAGCAA ACGAAAATCT ACAACTCCAT GCATGGTTCG GACATCACAA 24	60 20 80 40

CCACAGCCTG ACGTGGCCAA GGACAGTTGG GCAGCAGAAC TTGAAAACTC TTCCAAAGAA AACGAAGTGA TAGAGGTGAA ATCTATGGGG GAAAGCCAGT CCAAAAAACT CCAAGGTGGT TATGAGTGCA AATACTGCCC CTACTCCACG CAAAACCTGA ACGAGTTCAC GGAGCATGTC GACATGCAGC ATCCCAACGT GATTCTCAAC CCCCTCTACG TGTGTGCAGA ATGTAACTTC ACAACCAAAA AGTACGACTC CCTATCCGAC CACAGACTCG AG	360 420 480 540 582
(2) INFORMATION FOR SEQ ID NO:1155:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 279 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1155:	
GAATTCGGCC TTCATGGCCT AGGATCCGTG AGGGAGACCG CATCATCCAG ATTAACGGTG TAGACGTCCA GAACCGGGAA GAGGCGGTGG CCATCCTGAG CCAGGAAGAG AACACCAACA TCTCCCTGCT GGTGGCCCGA CCTGAGAGTC AGCTGGCGAA AAGGTGGAAG GACACCAACC GGGATGACTT CCTGGATGAC TTTGGCTCTG AGAATGAGGG GGAGCTGCGT GCTCGTAAAC TGAAATCACC CCCTGCCCAG CAGCCCGGAA ACACTCGAG	60 120 180 240 279
(2) INFORMATION FOR SEQ ID NO:1156:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 353 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1156:	
GAATTCGGCC AAAGAGGCCT ACATTGTTAA TATAATTTAA CAGAAGTTGT GAAACTAAAA TTTTCTAAGA TTAACTGGTA GTTCATTGTA AATGAACATA ATGAACAGAA TTTATGACTC CACTGTGGAA AATGCTATCA AATAACTAAG GAATATATAT GGAATAAGTG TACATATGTA AAATATTGTT ACTAGAGTTA GATATGTGC AAAGTCCATT TATCCCAAAAT CCTGTCTGAA AAGGAGGGGT ACATTGGTAA ACATTTTGGA GTGCTTAAAA ATGCCAAAAAA CAAAATGGTA ATTTCTACTT TGATAAAGTA AAAAGTTAA ATGTGTGTAA AAAAGTGCTC GAG	60 120 180 240 300 353
(2) INFORMATION FOR SEQ ID NO:1157:	
(2) INFORMATION FOR SEQ ID NO:1157:	
(2) INFORMATION FOR SEQ ID NO:1157:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 331 base pairs  (B) TYPE: nucleic acid	
(2) INFORMATION FOR SEQ ID NO:1157:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 331 base pairs	

60

120

180 240

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1157:

GAATTCGGCC TTCATGGCCT ACGGTGGCCT TTGGGGCCGA AGTGGGCGTG CGGCTCGCGC TGTTCGCGGC CTTCCTGGTG ACGGAGCTGC TCCCCCCGTT CCAGAGACTC ATCCAGCCGG

AGGAGATGTG GCTCTACCGG AACCCCTACG TGGAGGCGGA GTATTTCCCC ACCAAGCCGA TGTTTGTGCG TGGAGAAAGA TCGTCTTTCC TCCCTCCCCA TGACCGGGCT TCCCGCGGGC

ACCTGTGCGT TTTCCACCCC GAGACGGCCT TTGTAGGGAC CCACTGCCCA CTCCGCTGCT GTGCGCTGGG TTCCGCCTCC TAGGGCTCGA G

(2) INFORM	MATION FOR SEQ ID NO:1158:			
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 178 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
(ii	) MOLECULE TYPE: cDNA			
(xi	) SEQUENCE DESCRIPTION: SEQ ID NO	:1158;		
GTTTTATTTT	TTCATGGCCT AAAAACTTAG ACTGACATCT CCTGAGGGGG AATAACTTAT AATGCTGTTT TTTAAACTGT GTGCTAACTG CACGATTGAA	AGTTTTGTAC	TATTGGTGTG	60 120 178
(2) INFORM	ATION FOR SEQ ID NO:1159:			
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 401 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: CDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:	1159:		
CTGGAGTTCA CTTTACTGTT AATATTATCT CATGATCATC CATACCTTAT	TTCATGGCCT AAGCACTTTG GGATGTTGAA AGACCAGGCT GGGCATATC GCCAGACCCC GCCTCTATTG ACTCTTGAAT GCAAGAAGA TATATCCTC CTTCTTCAAA AGATCAGAAG TTTGTCTCCC TTATCAGATT GTCAAAATTA CTTTTTCCTA AATTCTCAGT TCTCCAAGTT GATGACTCTG TTCCACCCCC ATCGTCTCGA	ATCTCTTAAA ACATTTGCCC CACATGCTGT TATCTTTTCC CTCAGAAATC	AAAAGTAGTT TTTGACTTCT AAACATCAAT TATTTTCCTG	60 120 180 240 300 360 401
(2) INFORM	ATION FOR SEQ ID NO:1160:			
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 350 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:	1160:		
GTGCACTGGG CGGGTTAAAA TTCTGTTCTC CGTCCTCTGC GCTCCCTGGC	ACACGENTGG GGTAAGAAGG GCCTGGTGGG ACCAGGAGA CAGAACACAG GCCATAACTA ACGAGATCCA AGCCAGCCAG ATCGCAGGAG CCCCCAAGGT CACAGTGCAT GCAATAAAAT AGGGGCTCTG AGGGTCCAGA GCTCCCTTCG GGCCAGGCCG GGCTGGAGCC ACATGCGTCG ATION FOR SEQ ID NO:1161:	TAGGGCAGGT GTGCGGGGGC ATATATACAG GGTGGCGGGA	GGGGCAGGAA GTCGTCCCCC GAGCTAGATC	60 120 180 240 300 350

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 597 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1161:

GCCCCGGAGC	ATCTTAAGAG	CTGAGCGCAG	CTGACAACTA	GGGGCCGGAC	CGTCGCAGGA	60
GGCGTCCGCT	GGATACCTTC	CCCCTTCCCT	GACCTAGAGC	TCTACAGCTG	CTGCCTCGGT	120
ACTGACCGAG	GGTTCCCAGA	GCTGTCTCAC	CATTGCAAAA	ACGTTATAGC	AACAGCCTCT	180
GATTACGACA	TGGCTGAGAT	CACCAATATC	CGACCTAGCT	TTGATGTGTC	ACCGGTGGTG	240
GCCGGCCTCA	TCGGGGCCTC	TGTGCTGGTG	GTGTGTGTCT	CGGTGACCGT	CTTTGTCTGG	300
TCATGCTGCC	ACCAGCAGGC	AGAGAAGAAG	CACAAGAACC	CACCATACAA	GTTTATTCAC	360
	GCATCAGCAT					420
	ACAAAGATGG					480
GCAGCAGAGG	CTGGCCTGCT	AAGCCGAGAC	AAAGATCCCA	GGGGGCCTAG	CTCTGGATCT	540
TGTATAGACC	AATTACCCAT	CAAAATGGAC	TATGGGGAAG	AACTAAGGAA	CCTCGAG	597

- (2) INFORMATION FOR SEQ ID NO:1162:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 476 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1162:

GAATTCGGCC	TTCATGGCCT	AGAAATAACT	TAAAATCCTG	AATCAGATGT	TTCTCCGTAC	60
ATGGCCTATC	CAGATCACCG	TAGGGTGAAG	CTCAAAGTCA	GCAAGCCTCA	CCCACATACT	120
CAGAGCTTCC	TTTCAGTGTT	GAGACCTTCT	TCCCTCTGAG	CAGATGACAA	AGGAGTTTGA	180
AACCAGCCTG	GCCAACATGG	TGAAGCCCCG	TCTCTACTAA	AAACACAAAA	ATTAGCTGAA	240
ATGGTGACTG	TAATCCCAGC	TACTCAGGAG	GCTGAGGCAG	GAGAATCGCT	TGAATCCGGG	300
AGGCGGAGGT	TGCAGTGAGC	TGAGATCGTG	CCATTTCATT	CCAGCCTGGG	CAACAGAGCA	360
AGCCATCACA	GATTTGGGAG	CAACCAAGAA	AGCCAGGGAC	AGGGTATGCT	TGGTAACCTG	420
GCAAGAGCTG	ACAAAGGGGA	AAAATAAAAC	CCCACAGAAA	GAGCAGGGAA	CTCGAG	476

- (2) INFORMATION FOR SEQ ID NO:1163:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 482 base pairs
    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1163:

GAATTCGGCC	AAAGAGGCCT	AGATGAACAT	GAACCTGCGG	GAGCTGTACC	TGGCGGACAA	60
CAAGCTCAAC	GGCCTGCAGG	ACTCGGCCCA	GCTGGGTAAC	CTGCTCAAGT	TCAACTGCTC	120
CCTGCAGATC	CTGGACCTCC	GGAACAACCA	CGTGCTAGAC	TCGGGTCTGG	CCTACATCTG	180
CGAGGGCCTC	AAGGAGCAGA	GGAAGGGGCT	GGTGACCCTG	GTGCTGTGGA	ACAACCAGCT	240
CACGCACACA	GGCATGGCCT	TCCTGGGCAT	GACACTGCCG	CACACTCAGA	GCCTGGAGAC	300

GCTGAACCTG GGCCACAACC CCATCGGGAA CGAGGGTGTG CGGCACCTCA AGAACGGGCT CATCAGCAAC CGCAGCGTGC TGCGCCTCGG GCTGGCCTCC ACCAAGCTCA CGTGCGAGGG CGCGGTGGCG GTGGCGGAGT TCATCGCTGA GAGCCCCCGC CTCCTGAGAC TGAACCCTCG AG	360 420 480 482
(2) INFORMATION FOR SEQ ID NO:1164:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 494 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1164:	
GAATTCNGCC AAAGAGGCCT AAGGAGCGCT GTTAAAGCTG ATACATTCCT GTGGGTCAAC TATGCAACTA ACTCAGATTT TGAGCAAACA AAGCTCTCAA GTTGGTGATC CTCAGGAGTC TCTGCATTAG TTGGACAGCT CTCTGGAAT TATCTTCTAA GTCAACTGTG GGTTGGTAG GTGGCTCTGC TGATTTTTCG CTGGACTTCC ACATTTGGGA CCAGTTGGCT GTNATCAGCT CTAGAAAGGG TGTGGCTGTT TTACATTGGC TGTTTTCCTC ACATTCCTCA AGCAGGTACT GTAATAAAGA ACTGGAGAAA TACAGTCAGA TGGGAAGTAG CCCCTGCTGT CAAGGAGCTT GCCATCTAAT GGGGGAGACA GGCAAGTAAA CCAAAGACTA CACAGTGCAG TATGGTAAGT GCCATGATTT TGATGTGACA GGGCACAGTG GACGACCTTC CAAATCAAAG CAAGTAACTA GGGGCAGACT CGAG	60 120 180 240 300 360 420 480 494
(2) INFORMATION FOR SEQ ID NO:1165:	•
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 298 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1165:	
GAATTCGGCC TTCATGGCCT AACTCTTATC TGTGAACACA ACTTTTCAGC ACTACAAATG CAAGCAACTG CGCAGTCACA GTTGGGGCTG CTAATTTGGA AATCCAGTTT AGGCTGATTT GAAAAGACAA CAGCATTTTT GCAATCACTG GTGTATCCTT TACGAGAGAG CTAGTCATGC CATTTTTTGT TTTCTGAAGA CGGCCTTTTT TTCTTTTTTA TTATTATTAT TTTTTTAAAT TTGGGATCTT GCCTAATTCT TTAGTACAAA GCCTGGCCCT AAAACCGTAG AGCTCGAG	60 120 180 240 298
(2) INFORMATION FOR SEQ ID NO:1166:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 266 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1166:	
GAATTCGGCC TTCATGGCCT AGATAGAAAA GAATATTCCA AGTGTATGAA GTATAGAGGT GGGGAAGTTC AGGGTAGAGA AGTANTAGCA GGAATAGAAT ATAGGGGGAC AGAAAAATAG	60 120

AGTGGAGCCA GATTCAGAGA ACTTTNAGAA GCAGGTAAAG AAGTTTAGGA TTAATGC	GACA 180
AGTCATTGGG TCTCCAGGTT TCTTTGAGGG AGAGTGATAT CTGAGCTCTG TTTTAGA	AAAG 240
ATTAATCTGA AAGGAGGTAA CTCGAG	266
(2) INFORMATION FOR SEQ ID NO:1167:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 499 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1167:	
GAATTCGGCC TTCATGGCCT AGGTAAATAA TGCCAAGTTA CTGGGGTCTA GAAAGAA	AGT 60
TTTCTCTTGG ATCAAGAGAG TGTGAGTTTC CTAAGTTTCT TCAGCAGGGA TGTTGGT	CCT 120
TTAGTTAGGA GGTTTAAAAT CACCAGGAAG TAAGGGTGAG GAAGAAAGTC TGGGTCC	ATG 180
TTTGAGAAGG TGACTGATGG TGGTGGAAGT CCTTCCTGTG ATGAGTTAAT GATGCGT	ATT 240
TCTGATAAAG ATGGGAAGTT ATTTACATCG ACATTAACCA AATCTACCCT TCATGCA	GAA 300
AGAAAGAGCT CTTGGGCCAT TCTCTATTAA TGAAACCATA CCAGGGTCAA TATTACA	GTG 360
TCTCTGAAAT ACACTGAAAA TACTTCCCTG GCTCAGGTGG TGGCCCATGC TACCTCC	AGG 420
CAGTTCTACT TGATTAATGA TGCAATGGAG ATAATCCTAT TGCATCCACC ATCAAGG	AGA 480
GTTGGGCAGT CAACTCGAG	499
(2) INFORMATION FOR SEQ ID NO:1168:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 425 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEO ID NO:1168:	
(XI) SEQUENCE DESCRIPTION: SEQ ID NO:1168:	
GAATTCGGCC TTCATGGCCT ACACAAACAA ACCCAGAATA CTCTATTACT GTATTTG	TGG 60
GGTACAATCC ACTCAACTCT ATTATGAAGC CCAAAAAATA AATCTGTTAA AAACAAT	
AGCTACACCA ACCTGTTAAG AGATAGGTAA TATAAAAATA TATAGTTTGA GACAACT	AAA 180
TCAAAATGGA GGAGGGGATA GAGTTCAAGA AGTAGAATTT TTTTGCGTGT GCTTTTC	TTG 240
SCCTTTGTTT GCTTCTATTC TTTTATTTGG AATCAAAGAT AAGTTATCAA CTCTTTA	AAA 300
TAACTTGTTA TATGTATAAG ATGTTTTCTG TAAGCCTCAT GGTAACCACA GTACAAA	AAC 360
CTATAGTACA ATTCCTAAAA ATAAAATACA AAAAAATTAA AATATACTAC CAGAGAG	CTC 420
TCGAG	425

- (2) INFORMATION FOR SEQ ID NO:1169:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 318 base pairs

    - (B) .TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1169:

GAATTCGGCC TTCATGGCCT AAAAGGTTTG ATCTTGTAAT GTGTCACTGT GTTTCCTTAG TGGCCAGCCA GCCTTCAGAA TAGCTAAAGG CCTTCCTTCC TTCCAGTCAG CCTGAGAGAG AACACCTGTC CCCTAAGCAC CTGGTGTCTC CATTGGAGGC AGACTGCTCT CAGGAGACTA CTAGAAGCTT CAGCCCGGAA GACAGGCTGC TCTCTCATGC TGGTGGCCCA AATTGAGAAA GTGGTGTCCC TTCCTGATTT TGCCACCAGC CCTACCGAAT AGTTGTAAAC CAGTATCAGG AATTGGGATC CTCTCGAG	60 120 180 240 300 318
(2) INFORMATION FOR SEQ ID NO:1170:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 346 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1170:	
GAATTCGGCC TTCATGGCCT ACATTGGTCG TTTTATTGCC ATGGCACTAT TTCATGGAAA GTTTATCGAT ACTGGTTTCT CTTTACCATT CTACAAGCGT ATGTTAAGTA AAAAACTTAC TATTAAGGAT TTGGAATGTA TTGATACTGA ATTTTATACC TCCCTTATCT GGATAAGAA TAACAACATT GAAGAATGTG GCTTAGAAAT GTACTTTCT GTTGACATGG AGATTTTGGG AAAAGTTACT TCACATGACC TGAAGTTGGG AGGTTCCAAT ATTCTGGTGA CTGAGGAGAA CAAAGATGAA TATATTGGTT TAATGACAGA ACGCCGTTCG CTCGAG	60 120 180 240 300 346
(2) INFORMATION FOR SEQ ID NO:1171:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 240 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1171:	
GAATTCGGCC TTCATGGCCT ACACTTTATT CCCTTTTAAG TCTGGTAAAG AATGAATACT TGGACGTTTT GTTTCATGCA GATTTAGTTA GCAACTCGAT TATCAAATGG TAGAATACT GTATGCACTG AAGCCAAATT CTCAGTAACT CAGCTTTTGN TAGTCATATG AGGATGATGA ATAATAGGAN TCCAGAGCAG TTAACAAATT GATACAAGTG GTAGGAAAAT TTGATATGAA	60 120 180 240
(2) INFORMATION FOR SEQ ID NO:1172:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 277 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1172:	
GAATTCGGCC TTCATGGCCT AGTTTCNTTT TTGTATCTCT ACTGATATCA CCAGGATAGT	60

NTACTCTCCT TCTAGCTTC TGCTTACCGC ACACTGGATA ACACACACT ACACACCCAC AAAAATGCTC ATGAACCCAA TCCGGAGAAG GTTCCAGCAG GTCCCCCACC CTCCCTCCT CCTCCTACTT CTCCTCTTGA CAGCGAGGAC AGGAGGGGGA CAAGGGGACA CCTGGGCAGA

120

CCCGCCGGCT CTCCCCCCAC CCCACCCCCA TCTCGAG	277
(2) INFORMATION FOR SEQ ID NO:1173:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 258 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1173:	
GAATTCGGCC TTCATGGCCT AGAAAAGTCT AGAAAATAGC TTAAATAACA AACACGTGTG GATTTGTTAG ACCAAGAGCA AGGGAGACCA TTTAATGCAG TTATTTAACA ATATTTAGTA CTTTCCTTTA CCTTGTCTGC TGTGCCATCA TTCATGCCTG TCAGTGTTAA AAATCCCCAA ATTTCCCAAA CAGATTTTCA TTTCACTTCC GTCAACTTTT AAATTAAAGT TTTTAAATTC CTGTCCCCCAC TCCTCGAG	60 120 180 240 258
(2) INFORMATION FOR SEQ ID NO:1174:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 334 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: CDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1174:	
GAAAGTTGCT TTTGATGTCA AAATGGAAAA TGAAAAGTTA GTTTTAGCAT GTGAAGATGT GAGGCATCAG TTAGAAGAAT GTCTTGCTGG TAACAATCAG CTTTCTCTGG AAAAAAACAC TATTGTGGAG ACTCTAAAAA TGGAAAAAGG AGAGATAGAG GCAGAATTGT GTTGGCTAA AAAGAGGCTG TTGGAAGAAG CAAACAAGTA TGAGAAAACC ATTGAAGAAT GTCTTGCTGG TAACAATCAG CTTTCTCTGG AAAAAAACAC TATTGTGGAG ACTCTAAAAA TGGAAAAAGG AGAGATAGAG GCAGAATTGT GTCGGCCACT CGAG	60 120 180 240 300 334
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 403 base pairs  (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1175:	
GAATTCGGCC TTCATGGCCT AGTGCTTGAA CTCACGCATC TGTTTTACCT GCATCTGCAG GCGATGGGGC AGGGGCCACG GAAAGAGTCT GAGGGCTGCT TGGTGTAGTC AGGTTGTGTC CAGGCATGCG GAGCTGTAGA TGCCTGCAGA GAGAACACCC AGGAGGAGTT TTTACATTTT GGTCTAAAAAA GCTCTTGGAT TCATCTCATC TCATGGAATG ATCCTGTCGG ATGACGCTGA CGTGATTGCT TCAGACTTAG AGGTGAATAA ATTGAGGTCC AGAGAGGTCA CAGTCACGAA GCTCATGGTA GACTGAGGCC ACTAAACACC CGTCTCCTGA TTTTCAGTGG CGTCCTCATT TGCATACACC TGGGCCATCT TGGTTTTTGC AAGAAAACTC GAG	60 120 180 240 300 360 403

- (2) INFORMATION FOR SEQ ID NO:1176:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 590 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1176:

GAATTCGGCC	TTCATGGCCT	AGGTACCTTG	AACATGGCTG	TAAATTAATC	TTTAACTGCC	60
TTGGTGGAGT	CTTCCTGATT	TATTGAAGAG	AATAATCACG	TTTAATAAAA	TTGTTTGTTT	120
TTTGAGACGG	AGTCTCGCTC	TGTCAACCAG	GCTGGAGTGC	AGTGCCACGA	TCTCGGCTCA	180
CTGCAGCCTC	TGCCTCCCAG	GTTCAAGTGA	TTCTCCTGAT	TGAGCCTCCT	GAATAGCTGG	240
GATTATAGGT	GTGCACTACC	ATGACCAGCT	AATTTTTGTA	TTTTTAGTAG	AGATGGTGTT	300
TCACCATGTT	GGACCGGGCT	GGTCTCGAAC	TCCTGACCTC	AGGTGATCTG	CCCTCCTCAG	360
CTTCCCAAAG	TGTTGGGATT	ACAGGCATGA	GCCACCGCAC	CTGACATAAA	TATTTAATGT	420
AATACCGTGT	AAGACTTTTC	CATTGGGTTT	TGAGAAACAC	GTTAATGAGA	GAAATTGCTT	480
AACATTGGAG	AGGATTGCAG	AGAATATTGA	CTAATATGGT	GGGGTGAGGA	GGAACAACAT	540
CAATTAAGAT	TCAGATTTAT	TATTTAAAAA	AACTAAAAGG	CGGCCTCGAG		590

- (2) INFORMATION FOR SEQ ID NO:1177:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 562 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1177:

CTCGAGGTAG	CCACAGTCCT	GATCCTAGTG	ACAAATGGGG	GCATGTGTCT	ACATCCGGGT	60
CGGCGGAGGG	CTCATTTCAT	CTGGCCTGGG	GGGAAATGAG	TATTAATTTG	TTTACACAGA	120
CGTAAACACA	GCCCAAAACG	CATCAGCACG	TTGACTCAAA	CGCCCGCAAC	GCCAGGGCAA	180
AGGCAATTTG	GTTAACAGGG	GGAAGCGAAC	AGACGGAGAC	GCCTGGAGAC	CCAGGTGCCA	240
CAACCCGGTT	AATCGCGGTG	CAAATAAGGG	CAAGTCCCCT	CCCCTTGTCC	GTGTGGTCTT	300
GACAACGACA	CTAGTTCATT	CTACTAACAA	GGCGGGCGGG	GGGTCAGATG	GGCCACACAC	360
ACCCATTTTC	CTCAACGGGA	CCCCAACGCG	ATCTCAGCCT	TGCTGTGCTA	CTTTAGGGCA	420
AGACGCGTTC	CCCATTCGGA	AGCCGCAGGA	AAGCGCGGCG	AGAGCGGGTT	AGCCCTCGGA	480
GCGGCTAAGA	GCCTCGGAAT	AGCGCAGAGG	AAGTCCCCAC	CCCTCTCGGG	GCTGGGAGCC	540
CTAGGCCATG	AAGGCCGAAT	TC				562

- (2) INFORMATION FOR SEQ ID NO:1178:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 339 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1178:

TGGAAGCAGG GAGCAGAGTG GGGAAAACAG CAGTCTTATG GGACTGAGTC CTCAATCTGT GTGATCTGAC TCTATCTGCA AGGTAGTGTT GGAAGTGAAC AGGGTTGGAG AATGCCCAGC TGGTGTCCAC CGCAGAATTG ATTCATGTT TGGTATCCAG GGACCCCCCA CTCCACACTT AGTCACAGAA ATCTGTGTTG ATTGTTGTGG CATGAAAGCA GGGAAAAATA GTTTGTTTT TTCTCCACAC TTCCTTCCCA AGATCCCGGC TAACTCGAG	120 180 240 300 339
(2) INFORMATION FOR SEQ ID NO:1179:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 353 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1179:	
GAATTCGGCC TTCATGGCCT ACTCACCGGA GAAAAGAAGT TTCNGAAGAA AACCACAACC ATGCCAATGA ACGAATGCTA TTTCATGGGT CTCCTTTTGT GAATGCAATT ATCCACAAAG GCTTTGATGA AAGCATGCG TACATAGGTG GTATGTTTGG AGCTGGCATT TATTTTGCTG AAAACTCTTC CAAAAGCAAT CAATATGTAT ATGGAATTGG AGGAGGTACT GGGTACCT TCACAAAGA CAGATCTTGT TACATTTGCC ACAGGCAGCT GCTCTTTTGC CGGGTAACCT TCAGTGCAA TGAAAATGGC ACATCTCCTC GAG	60 120 180 240 300 353
(2) INFORMATION FOR SEQ ID NO:1180:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 296 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1180:	
GAATTCGGCC AAAGAGGCCT ACAGAGTGCT GTGCTTAAGT TTTACTTCTT TCCACCTTTA AATCTCTGAT AAGTTTCTTT TTATCTAAAG GTTCCACTTT GTTCATTACT TTTTGTTTCC TTATTATTGA TTTGTTCGAG AACCTGAGTT TCTTGACCTG TGTGATTTTG TACCACCTGG ACTTTCTGAC TGTGTTTGCC CAGGCTGGAG AGCAGTGGTG GGATCATAGC TTACTGGACT CAAGCCATCC TCCCGCCTCA GCCTCCCAAG TAACTGGGAC TATGGGCACA CTCGAG	60 120 180 240 296
(2) INFORMATION FOR SEQ ID NO:1181:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 277 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1181:	

GAATTCGGCC TTCATGGCCT ACTTGAGTTG TACATTAGAT CTTTAAACTT GTTAGTCCTA CATATCTGCT ATTTTTATC CTTTGACCTA CATTTTCCCA TTTCCTCCA GTGTTCTCTC CCCAGGTAAT CATTGTTTTA TTCCCTTTCT CTGTAAATTT GACTTTTTT TTTGGATTCC

ACATATAAGT GAGATCATGA TCATGCGGTA TTTTTCTTTC TGTGTCTGGC TTATTTCACA

60

TAGTATTATG TCCTCCAAGT CTACCCACGA ACTCGAG

## PCT/US98/06956

(2) INFORMATION FOR SEQ ID NO:1182:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 192 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1182:	
GAATTCGGCC TTCATGGCCT AGAGATACTG GCTGGCAATT CTTGGCGTTC CTTGGCTTGT AGCTGTAAGA TGCGCTCTAA TATCAGTCTC TGTTGTCATT TGCCTTTTCT CTGTGTCTGT GTTCAAATGT CCTTTTTTT TTTTTTTTA GGGAGTCTTG CTCTGTTGCC CACTCAAACT GCTGGGCTCG AG	60 120 180 192
(2) INFORMATION FOR SEQ ID NO:1183:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 296 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1183:	
GAATTCNGCC AAAGAGGCCT AGTAAATAGT TGTTCTGTTA CATTGTTTAG AGAATAATGA CAAGAACAAA AATCTGTGT TTCAGTATAG ACACAACCAT CCTTTTCTTT TTTTTTTTTT	60 120 180 240 296
(2) INFORMATION FOR SEQ ID NO:1184:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 234 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1184:	
GAATTCGGAC TACTACAGGT GATACTACAG TGACTACTAC AGTAATTCGG ACTACTACAG GTGGCTAATT CGGATTACTA CAGGTGGACA TAATTCGGAC TACTACAGGT AATTCGGACT ACTACAGGTG AGCTAATTCG GACTACTACA GGTGGACATA ATTCGGACTA CTACAGGTGC ACCTGTAGTG GAGAACATTT AGCAATGATA AAGCCGCTGC TGATCCTTCT CGAG	60 120 180 234
(2) INFORMATION FOR SEQ ID NO:1185:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 300 base pairs  (B) TYPE: nucleic acid	

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1185:

GAATTCGGCC	AAAGAGGCCT	AGAACAGTTT	AGAAACAATT	TCCCTGCCTT	TGCTTTGGGT	60
TCCCTGTGAT	TGTTCTCCAC	ACTGTTTTCC	TGGCTCTATC	TGTCTCCCTT	GCCACGGCCA	120
CTCAAGCCTA	GCTGCCCAAC	AGCTCCTTCC	CTGAAGAACC	CCGGCCTTCA	GGCTTGACAG	180
GTGATCTCAT	CCCTCTTCTT	TTCCTCCAGG	TTGTTGTAGA	CTTCCACCTT	CCCTTCTTCT	240
CCTGGTCCTT	TCCCCTTTCT	AGTGCCAATG	TGGGCCACGC	TTTCATCCCA	CCTACTCGAG	300

- (2) INFORMATION FOR SEQ ID NO:1186:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 324 base pairs
    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1186:

GAATTCGGCC	TTCATGGCCT	AGTGATGAGC	CCTCCTCTTC	AGCTAGGAAA	ATGACGGTGT	60
TCAGAAAGTT	AAAACTTCTT	CGCTGGAAGG	ATTTCATCTT	AAAGTTGGGA	GACTGGAAGA	120
AATTAAAGTG	TTCTAAATGG	AAGAGCATTC	ACCACATGTG	TTCTGTTTTG	GGTTGACATT	180
TAGCTTTTGT	TTTTATTTTA	GAAACGGAAG	ACTCTGGTAG	CAGTCCTTGA	AATCTTGATG	240
CCATTGCTAT	TTTCTGCATT	GTATTGTATC	TTCGTTTTAG	TAGTGCTCCA	ATAAAAAGAC	300
CTGCTACTAG	CTGCAAAACT	CGAG				324

- (2) INFORMATION FOR SEQ ID NO:1187:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 308 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1187:

GAATTCGGCC	TTCATGGCCT	AGTACGTTGC	TGAAAAGAAG	TTTATTGCTA	TTTTCTTATT	60
TTATTATACA	AAACTAGATT	TGCTTAAAAC	ATTTCCCAGT	CTCTTTAAAG	GAATGCTAGT	120
TAGTGGGAGG	CCACAGCTAG	TAAATTACCC	TCAGTAGTGG	TTTCAAGTAG	TCCATAACTA	180
TAAAAATCGT	TACGGCCAGG	ATATGCCGGA	ACAGAACACT	CCCCACTGGG	GTCCTCAGCC	240
TTGGATGTCA	GCTCGGCCCC	TCAAGGGGTC	CCTACACCTG	GAAGCTGATT	CCACTCATCA	300
GTCTCGAG						308

- (2) INFORMATION FOR SEQ ID NO:1188:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 251 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1188:

GAATTCGGCC	TTCATGGCCT	AGAATGAAGA	AGGTTCCCAA	GAAGTTAGAG	GAGATTCCCC	60
CAGCCTCTCC	GGAGATGGCA	CAGATGAGGA	AGCAGTGCCT	GGACTATCAT	TACCAGGAGA	120
TGCAGGCTCT	GAAGGAGGTC	TTCAAGGAGT	ATTTGATTGA	ACTGTTTTTC	TTGCAACACT	180
TTCAAGGGAA	CATGATGGAT	TTCTTAGCTT	TCAAGAAGAA	ACATTATGCC	CCATTACAAG	240
CACCACTCGA	G					251

- (2) INFORMATION FOR SEQ ID NO:1189:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 359 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1189:

GAATTCGGCC	TTCATGGCCT	AAGGAGTTGG	AAATTGTGCA	CAAAGAAAGG	TGGTGAATAA	60
GTAAAGTCGT	AAATTCAAGA	CCACAACAGA	AAGCTTCACT	GCAGACACTG	GACTTGAACC	120
ACCATTGAAA	ACAGTCAGGA	TTTGGAGATG	ATAATTAGGA	GGATGTGTAT	TCTAGCTGTG	180
GAATTTATTG	TGGGCAAGCA	TAGGAATGAG	AAAGTACAAT	GAAAAAATGT	AAGTAGACCC	240
ACCAAGTTAG	AGAAGAAGGT	CCTGGTTAAG	AAAAATGAAA	GATTTTTTTG	AACAACAGAT	300
TAATGTGATG	AAATAGATGT	TCAAGAGTGA	AGATAAGTTG	AAGATAGGGA	CCCCTCGAG	359

- (2) INFORMATION FOR SEQ ID NO:1190:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 245 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1190:

GTTGTTAGGC	TGGTGTTGTT	ATGTTGCTGT	TGTTATGCTG	GTCGTGCTGC	TCCATGTTCT	60
CCAGGTGTTC	TTCCCTTTTA	TCGTCACAGT	TACCCCGTAC	ACCTGACAAC	TGGACATCTG	120
CGCCTGGGGT	CTTCAGCCTA	AACACACCTA	AACCCTCCAC	CAAACCCCTC	TGCTTCCGCC	180
TCCCCGTGTC	TGTGAGCGCC	TCCACTGCCC	ATCCCTCTGC	TCAGGCCCCA	TTTCCAGGGC	240
TCGAG						245

- (2) INFORMATION FOR SEQ ID NO:1191:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 257 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1191:

GAATTCGGCC	TTCATGGCCT	AGTCTCAAAA	AAAAAAAAA	AAAATAGTGT	TCAGCAAGGT	60
TGAAGCATAA	AAGGTTAATA	GCCAGAATCA	TTTATCAATT	GTATTTCTAT	ACATCTACAA	120
GACACAATCT	GAAAATGAAA	TTAGAGAAAC	AATTTCACTG	GGCAACAAGA	GCAAAACTTC	180
ATCTCAAAAT	AATCATCATC	ATCATCATCA	TCATCATCAT	CATCATCTAC	AATGTCATTT	240
CCCATCCAAC	GCTCGAG					257

- (2) INFORMATION FOR SEQ ID NO:1192:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 748 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1192:

GAATTCGGCC	TTCATGGCCT	AAGGACATGG	CAGAGTTCCT	GCTAAAAGAG	AAGACAGTTA	60
TTTAAGGAGG	TTTGAGATTC	AAGGGCTTTT	TTAATTTTAA	AATTAACCAT	GGTAGAAACC	120
TGTGTGTTAA	TATGCTGAGG	GAAGTTGCCA	ATAGTGAGAT	GAAAGATCTA	GGCAAGGGGA	180
TAGCAAGGTG	ACTGCACCAG	ATACCTGGAT	CTGGGCAGGA	ATAAACCTCA	ACAGTGATCA	240
TGTTGACCTT	GAGTGACAGG	GTATAATGTT	TGGGAAGGTG	CTTTGTAAAC	TATAAGGGGC	300
AATACAAACA	TGTAGTACAC	CTTCTCTGAG	ATCCGGGAAA	GGACAACCTG	AGCATAGGTT	360
GGGGCTGGTC	ATAGGCCACT	CTCCCCTACT	GTTTCTCTAG	AGTGTGTGTA	GTCCCTAGCA	420
AGTCTCAGAT	GCCTCGACCT	TCATGGCCTA	GAGAGTTCTC	ATCAGAACAG	GAAGGCAGTG	480
ATGATCCATT	GCATGGGCAG	GATTGTTCTA	CGAAGACGAA	GATCTCCGGA	AAGTGAAGAA	540
GACCCGGAGG	AAACTAACCT	CAACCTCTGC	CATCACAAGG	CAACCTAACA	TCAAACAGAA	600
GTTTGTGGCC	CTCCTGAAGC	GGTTTAAAGT	TTCAGATGAG	GTGGGCTTTG	GGCTGGAGCA	660
TGTGTCCCGC	GAGCAGATCC	GGGAAGTGGA	AGAGGACTTG	GATGAATTGT	ATGACAGTCT	720
GGAGATGTAC	AACCCCAGTC	GACTCGAG				748

- (2) INFORMATION FOR SEQ ID NO:1193:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 227 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1193:

GAATTGCGAA	CATGGCAGCG	CGTTGGCGGT	TTTGGTGTGT	CTCTGTGACC	ATGGTGGTGG	60
CGCTGCTCAT	CGTTTGCGAC	GTTCCCTCAG	CCTCTGCCCA	AAGAAAGAAG	GAGATGGTGT	120
TATCTGAAAA	GGTTAGTCAG	CTGATGGAAT	GGACTAACAA	AAGACCTGTA	ATAAGAATGA	180
ATGGAGACAA	GTTCCGTCGC	СТТСТСАДАС	CCCCACCTAA	TOTOGAG		227

- (2) INFORMATION FOR SEQ ID NO:1194:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 258 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1194:

GAATTCGGCC TTCATGG	CCT AGTATATATA	TAAAATACTG	AGGATTTAGG	GCTGATGTAT	6
ATAAATAAAA TACTGATA	AAC TTTTTTCCTT	TCTTTTTCTT	TTTTTTTGA	GATAGTGTCA	120
TGCTCTGTTG CCCAGGC					180
CCAGGCTCAA GCAATCC	rcc tgcctcagca	CCCTCAATAA	CTGGGACCAC	AATTGCATGC	240
CACCAAACGC ACCTCGAC	3				258
(2) INFORMATION FOR	R SEQ ID NO:119	95:			
(1) SEQUENCE	CHARACTERISTI	.CS:			

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1195:

GAATTCGGCC	TTCATGGCCT	AATGAATTCT	CATTTCCTGG	AGGCTGAAGA	TCTGTGCAGG	60
TGTCTGTGGC	CAATGTTAAG	CCTACGACTT	TAGATGAGCT	GGCATAAATC	TTGGGAGAGT	120
TTTCTTGTCT	GTGTTCCCTC	TGAATTTCTC	TGTGCTGTTA	GAGGCAGGGA	CAGAAGAGAA	180
CCAGCATGGC	AGTGCTGGGC	TCAGGGTGAT	GCCTGCCTGC	CAGCACAGCG	GTTCTTGTCC	240
CTGTCCCACA	TTGCTTCTTG	GAAGCCTTTT	TACAGCCTCA	ATCATCTTGC	TTTTTCTACC	300
GCAGCTATCT	CGAG					314

- (2) INFORMATION FOR SEQ ID NO:1196:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 385 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1196:

GAATTCGGCC	TTCATGCGGG	GACTTCCACT	CTTTCTCGTT	TTCTCGGAGC	TCCGCCTCCA	60
GCTCCTCTAT	CTTCCTCTTC	AGCTGCGTGT	TCTTCTCCTC	TCTGTGGATC	TCACGGCCTC	120
TTCCTCTGCT	CCACGCTGGC	CACCGACTCC	TGCAGCGCCG	TGGGCAGCCG	GGCGTCGCTC	180
TCCCGCCGGG,	TCTGCAGCTC	CATCTCCCAC	CTCTTCCCGT	GGGCAGCTCT	CTGCGTCGAG	240
GCCGCCTTCA	GCTTGTGGTT	CCCAGACTGC	AGGTGCGTGT	CAGCTGCAGC	GGCCTGAGAG	300
GCCTTTCATC	GTCCGTCCCG	TTGACACTGG	ATGCCGGAGT	AGAAGATGGG	GCTCCATGCC	360
CGGATTCTCG	<b>GGATTATTAC</b>	TCGAG				385

- (2) INFORMATION FOR SEQ ID NO:1197:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 256 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1197:

GAATTTGCAG TGAACCGAGA TTGTGCCATT GCACTCCAGC CTGGGCAAAA GAGCAAGACT

GACTACTTTA	AAAAAATCTT AAAAATACGA AGTTTTTCAT TTTTCTTAAA TTTTCATTGT GTAGACTTGC CAGTAATAAG CCAGTTACCG CTTGAATCTC AGTTTCTTTA GGTCATTATT TATCTGCTGT CCCCTTACCT AGAGGGAATC AAATGCGTTT CTCGAG	180
(2) INFORM	ATION FOR SEQ ID NO:1198:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 446 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1198:	
GAATTCGGCC	TTCATGGCCT AGAGAGCCCA TCTCCATCTG CCAGCCTGGA AGCAGCCATG	60
	TGTGTCCCAC TGCCCCCGTT TGGTGCCACA GTTGGGTTTA TTCTCACAGC	
	CGTGCTGGGC TGCACAGCTG CCTGAACGAA GCTGGAGCGT GCAGAACAAA	
	TGTCACGTGG GGTTTTCCAC TCTCGCCCAC AGTGAGTTGG CAATGCCTGG	
	TCTGTGGTCT TTGAACTTGA TCTGGGAGGA CAGAANTTCA AAAGGAAGAT	
	GCAAGGGAGG TATTCCTGTC TTGAGCAGAA GGTAAAGGTA GAAGGTGCAG	
	GGGAATAGTC ATGGTTTGGT TTGAATGGAG TAGAAGATTC CAGAGGAAGA	
	ACAGTGGCTC CTCGAG	446
(2) INFORMA	ATION FOR SEQ ID NO:1199:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 369 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1199:	
	TCATGGCCTA AATTGTAGCT AGGAAAATAA TATATGTCTT AGTTTAAGAA	
	GGAATCAACT CATTGCACTT TCCTATATGT TTGGCCATGG GCAAAGCACA	
	ATCAATTGGC TCGTCTCCAA GGTGAGGATA GTTATACTTA ATCCTCTTTA	
	TAAAAATTAA ATATGTGTGT AGCATAGTGT CTACAATGTT AGAGGTATTT	
	AGTTTATTTT TTGGAATTAT TTAGCATTAT TAAAAACAAG GGGGAGCACA	
CGGTGGCACG	TTTCTGGTCC CAGCTACTTG GGAAGCTGAG GTAGTAGGAT CGCTTGAGAT	360

(2) INFORMATION FOR SEQ ID NO:1200:

CCGCTCGAG

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 483 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1200:

369

TCCAGCAGAA GGAGCAACTA GTGCAAAGCC CCTGAGACAC AACTGCACCT ATCCAGATTA AGGACCACCG AGGAGCCAC TGTAGGAGCA CAAAAAAAGT AGGAGATGAA CAGGAGGTG AGGAGGGCC CGTAGGTCCT AGTATGCACT TTGGCATTTA TTTACTGATT GAGATGGCAC GTCATTGGAG GATTCGGAGC AGAGGAAGGA TATAATCTGA CATTTTAGCA GGATCCCTTT GAGTAAGTTA CCTGCGTAGA CCTAAGATGA ACAAGGACAG CCACAGCAAG ACCTGTAAGG AGACTATCCT TGTAATCCAG GCAAGAGATG ATGGCAGCTT GGACCAGGGT AGTAGCAGTG GAATTGATGA GAAGTGGTT AAATCTGGAT ATATTTTGAA GATGGAGCCC ATGGGGTCTC GAG	120 180 240 300 360 420 480 483
(2) INFORMATION FOR SEQ ID NO:1201:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 192 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1201:	
ACCATATAAT TTGCCACTTG AAGTGTACAA ATTCAGTGAC TTTTAGTAAA TTCACAGTTA TATATTCATT AGGATATTCA GAGTTATATA TTCATCACCA CAGTCACTCT TAGAACATTT TAATAACCTC AAAAAGAAAC CATGCACTCC TTAGCCATCA CTCCTAACCC AACTCTCCCT CTACCGCTCG AG	60 120 180 192
(2) INFORMATION FOR SEQ ID NO:1202:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 281 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1202:	
GAATTCGGCC TTCATGGCCT ACTTTAAACA TGTGGTCTTA CTGCCTGCAA ACACATACAG ACTCTTAATT TTTATTTACA TAGATGTAAA TATACACATA TATTACTCTA AAGATAAACC TTAAGGGTAA GAAAATTATA AAGTATGTGT GTTTNTGTGA ATATGAATTT GTACCTATAT TCAGAAGAAA AGAGCAATAT TGGCACAAAA CAAATCATCT TAATAAGGTA ACTAATTGGN TGNGTGCAGT GGCTCACGCC TGTAATCGCA TCACACTCGA G	60 120 180 240 281
(2) INFORMATION FOR SEQ ID NO:1203:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 328 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1203:	

60 120 180

GAATTCGGCC TTCATGGCCT AGTGATCTAC TTAGGTAGCT CCTGGAAAGC AAAGGAGAG GAGCAAGACC TGTACAGACT TTGTTTATGA GGAAAGCTAT ATAAGGATTA TAAGAACTGA

TAAATATTTC TTTGTTTCCT TTTTGACAAA ATGGATTTTC TTCAGTTTCT TAAGCAGATG

TATTATTTCT GGGACGTTTT AGCCATGTAG TTTCTTTTTA TTCCTCTTTG ATACCCTGAA TAACTAGCCT TAGAAACACA AGTAAAGCTC CCAAAATTTC ATTTTCTACA TATTTTATTA CCAGATTGAA TTCTAGACCT GCCTCGAG	240 300 328
(2) INFORMATION FOR SEQ ID NO:1204:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 307 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1204:	
GAATTCGGCC TTCATGGCNT AGGTCCTAAA AAGAGTAAAA GGTGAAAACA CTAAGTGATA TTCNAAACAA AAGAAAAAGA TGAAAAATAA GAACCTTGGT TAAAGAGCAG TCGAAATAAG TAATGATTAT AGCTATGATT TATATAGCAC TTNTTACAAG AAGCCAGGCG CTGTTTTAAA CACTTGACAT ACTTATTGC TCATTTCATA ATTGTAACAA CCCTATCAGA TAGGTACTAT TTTTATCCCA CTTTACAGAG GAGAAACTGA GGCACAGAAT TTTAAGTGAT TTGGCCGGGT GCTCGAG	60 120 180 240 300 307
(2) INFORMATION FOR SEQ ID NO:1205:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 425 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1205:	
GAATTCGGCC TTCATGGCCT AAAAAAAAAT GTAGTCTAGA AAGAGACTAG GAATAGAACA CTGCTGACTT GTTCTTATAC CAAGAGCTGG AGGCATAAAC AGTTTTAATA AAAAAGAATA CTTTGTATCT TTTGATGTAA CTTCCCTTTA GAGATCTGT TTCCCCTGTC TTAAATTGTC AGGCTATTTC TGATTGCTGT TTAAATAATT GGTAGTTACT ATTTGAGTCA NGCTTCTTAA AAAAAAAAAA ATTAAAAAAT TCGCCAGCTC AGCTTTCATT TAATTAGTAT CAAAGAAATG ATATCTGTGG CAGTGAACAT TAGTAGCTTG TTCCAGGGTT TATTGTAGGT TTGTTCAAGT CAGTACTGCC CATCTTGGCA CTTAGGTTCT TGGAATACAG AGGTGGATAA GGTTTGCCCC TCGAG	60 120 180 240 300 360 420
(2) INFORMATION FOR SEQ ID NO:1206:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 504 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE; cDNA	

120 180

CCTACGTAGC CCTACTTCAG TCCCAGGAGA AGGAATCCAT GAATGGGCTG AGGTTCCGAG

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1206:

GGTAGGTTGT GGATGTCTTT CTCTAGAGGG GTCCCACACC TGGAAAAGAG GACACCCAGC CCGNGGGATG AGGGAAGCTG GGCAAGGGAG AAAGTTGTTG AGTCACACTG GGGACCCCAG ATGTAGTGAG CTCAGCAAGA AAAGCCAGGT CCAGAGAGAG TCGCACAGAA TTCCTCACTC ACAGCGCCCC TCGGTCCACA GTGGAGAGGA GGAGGAGGAG GAGCAGAAGG AAGGGGGAGGA GCTGCAGGAG GAGGAGGATT TGAAAGCGCT TTGGCCTTGT GTTATGTTTT GCTTCTTTTC TGTGCCCCCC TCTAGGCCAT GAAG	240 300 360 420 480 504
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 242 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1207:	
GAAATTTTC AGTAACTCAG TGTCTTTAAC TAATAATTTA ATCATTCTAG TAAGAAAACA TGCTTTGTAT GATTTTAGTC TTTACATTTA TTAATTTATG TAAAATTAATA TGTGGGTTTT ATGATCACCC ACGACATTGT CCTAACTTGT CGACTGTTCT GTGTGCTCTT TTAAAGAAGG TAGTCTGTTG GCCGGGTGCG GTGGCTTACG CCTATAATCC CAGCACTTCG GACAGGCTCG AG	60 120 180 240 242
(2) INFORMATION FOR SEQ ID NO:1208:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 152 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1208:	
GTAGAATTGT ACAGTGCTTA TGAGTTATGC ATGTGTTCCT GGTCTTTGTT CTAGGATTTT TTTTTTTTTT TGATTGCTGC TCCAGGTTGCC TTACTTACTT TGACATTGGA GTTGACCACA TGATGGTGTT CCACACTTCC CCTAGGCTCG AG	60 120 152
(2) INFORMATION FOR SEQ ID NO:1209:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 317 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1209:	
GAATTCGGCC TTCATGGCCT ACTACCCCTT TATCATTCAC TAACGTGAAT GTGGTGCTAA TTTTTCCAGT CCATATCTTT GAACTTTTTG TAATTATACC ACATCAATAA GCAATCGAGT TTTATCTATT CTAATTGTTT TAATGTACAA CTTTATGGGT ACATGTGCAA TTTTTTTCT TGCATGGTGG CCAAATCAGG GCTTTTAGAA CATCCAACAT GCGAATAATG TACATTGTAC CCATTAACTA ATTTCTCAAT ACTTCTGAGT CTTCCTTGTC TATGATTCCA CTCCTACAT CACATGTACA CCTCGAG	60 120 180 240 300 317

- (2) INFORMATION FOR SEQ ID NO:1210:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 282 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1210:

GACAGATTTC	ATTACCTTGA	AGTTCACTGC	ACTGAACAAT	TCTCACTCTG	GATGTATTCC	60
TGCTCTAGGA						120
GCTCATTTTA	GTTTCATGAT	GACTGCATGG	AATGTTTTGC	TTCACGCTTA	TGCATTGAGT	180
TTTATCAAGC	ATTAAGCAGT	TGGCCGAAAC	AGGTAATACT	TGAACATTCA	GTCCAAGAAA	240
AACAAAATGG	ATTTGAACAT	ACGTAGAATC	AGTAAACTCG	AG		282

- (2) INFORMATION FOR SEQ ID NO:1211:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 482 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1211:

GAATTCGGCC	TTCATGGCCT	AGTCAAACCC	TAGAGCAATG	CAGGCCTTGT	TACAGATTCA	60
GCAGGGTTTA	CAGACATTAG	CAACGGAAGC	CCCGGGCCTC	ATCCCAGGGT	TTACTCCTGG	120
CTTGGGGGCA	TTAGGAAGCA	CTGGAGGCTC	TTCGGGAACT	AATGGATCTA	ACGCCACACC	180
TAGTGAAAAC	ACAAGTCCCA	CAGCAGGAAC	CACTGAACCT	GGACATCAGC	AGTTTATTCA	240
GCAGATGCTT	CAGGCTCTTG	CTGGAGTAAA	TCCTCAGCTA	CAGAATCCAG	AAGTCAGATT	300
TCAGCAACAA	CTGGAACAAC	TCAGTGCAAT	GGGATTTTTG	AACCGTGAAG	CAAACTTGCA	360
AGCTCTAATA	GCAACAGGAG	GTGATATCAA	TGCAGCTATT	GAAAGGTTAC	TGGGCTCCCA	420
GCCATCATAG	CAGCATTTCT	GTATCTTGAA	AAAATGTAAT	TTATTTTTGA	TAACGGCTCG	480
AG						482

- (2) INFORMATION FOR SEQ ID NO:1212:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 343 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
    - (b) TOPOBOGI: TIME
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1212:

GAATTCGGCC	TTCATGGCCT	AGGGTGATAT	TTAACTCGTT	GCCAATGGCT	AAGCTCCAGA	60
CTTTGCCTCT	CACACTTGGA	GGGATTCCCT	GCCACCATAA	ATCTCGAACT	TTTCTAGAGC	120
ACCACATTGT	TTCCCAGTTA	GGTAAGATCT	CATTATTCCA	GGTGAGCACA	GCGTTTCCAA	180
TGCTTTCCTC	GACTCTGCAT	CTTTCTTCCA	GCTGCTTCTT	CCTTCGCTGG	GCTTCTTTCA	240
GCTCTCGCTT	TTTGGCCTGA	ACCACCATTT	CTTCATACTG	CTGTCTGTGC	TTCTGAGCTT	300
CTTCAGCTGG	TTTTGCTGGG	AGATTTGCTG	GTCTGTCCTC	GAG		343

- (2) INFORMATION FOR SEQ ID NO:1213:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 285 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1213:

GAATTCGGCC	TTCATGGCCT	AGAGAAACTA	AAACTCAGAG	AAGTTAATTA	CTGAACTCAA	60
GATCCCAAAG	TGCTGGGATT	GCAGGCGTGA	GCCACCGCGC	CTGGCTGAAA	GAGCTTTTTT	120
AATGTATTAT	TTATTTGTGT	CAGGATAGAC	TCATTGATGC	GTGTTTTATT	CAGTGGGTTA	180
TAATTCTTTA	TTATGTATTC	TGATGTTGGT	GTTTTCCCAG	TTTTAGCCAA	TGGCATCCCC	240
TTCCATCTGG	ATCCTGTGTT	CTTTTGACAT	GGCTCCAATC	TCGAG		285

- (2) INFORMATION FOR SEQ ID NO:1214:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 320 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1214:

GAATTCGGCC	TTCATGGCCT	AGAACCAGGC	CTTCCAGTAC	GAGTTTGGAG	CCATGTATGC	60
ATGGATGCTG	TGTGTCTTCA	CTGTCATCGT	GGCCTACAGC	ATCACTTGTC	CCATCATCGC	120
GCCATTTGGC	CTCATCTACA	TCCTGCTCAA	GCACATGGTG	GACCGGCACA	ACCTCTACTT	180
CGTCTACCTC	CCAGCCAAGC	TGGAGAAGGG	GATCCACTTT	GCCGCTGTGA	ACCAGGCCTT	240
GGCAGCCCCC	ATCCTGTGCC	TCTTCTGGCT	CTACTTCTTT	TCCTTCCTGC	GCCTGGGTAT	300
GAAGGCCCCC	GTCACTCGAG					320

- (2) INFORMATION FOR SEQ ID NO:1215:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 446 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1215:

${\tt GAATTCGGCC}$	TTCATTTTGA	AAGATATTTT	TGTAAAAATC	TGTTTGTTTT	CTTTTAATAC	60
TTTCCAGTGT	TATCTGGGTT	TCTTAATTTC	TGACTTAAGG	TCTGTAATAA	TTTCTGCTTT	120
CATTCCTCTT	AATATATTGT	GTCTTTCTTT	GTCTACATTT	AAGATTTTAT	CTTTATCACG	180
TGTTTTGAAA	AGTTTTATTT	TGATGTGCTC	TTTATGTTTT	TCTTTATTTG	TAGTGCTTGG	240
ACCTTGTGGT	GCTTTTCTTA	TTTATAATTT	TCATCAAATT	TGGGGGGTTT	GACCATTATT	300
GCTTCAAAAA	TAATCTCTGT	TCTCTTTCTT	CACTTTCTCC	AGTTACATAC	TGTAGAGTAA	360
ATGATAGCTA	CCGAAGACAG	AGTGATCCGT	GATAAATATC	ATTAATGCCT	CTGAAGAGGA	420
GAATGACTCC	AGTGGAACCA	CTCGAG				446

(2) INFORMATION FOR SEQ ID NO:1216:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 263 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1216:	
GGACTTTTTG GAGAAGCAGT ACTATTCATT AATTAAGTAT AGAGTGTCTT GTTAAT	
AAAGAAAGAG AGCCTTAATG AGGATCATGA ATTTTTTTTT TTTTTTTT TTTTGG	GATG 12
GAGTTTCGCT CTTGTCGCCT AGGCTGGAGT GGGGTGCTAT CTCTGCTCAC CACAAC	
GCTTCCTGGG TTCAAGCGAT TCTCCTGCCT CTGTCTCCCG AGTAGCTGGG ATTACA	
TACGCCGCCA TGCCCAACTC GAG	263
(2) INFORMATION FOR SEQ ID NO:1217:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 325 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1217:	
Charmococo macamococa hancana hambacana hannanan am	
GAATTCGGCC TTCATGGCCT AAACAACAC AATAACAACA ACAAAAACAT GTATAA GAAAAAACTG AAAGAGAATG CAGGATCATA AAAATATAGC AAACAAAGTG AGTGGG	CTGG 60
AAAATTAGTG GAATAAGAAA TAATGGGTAA CAATGAAGAA CATAATTTAG GTAATA	GTAT 180
AGTATCTTGG GAGCCCTCCT GGAAGTATCT AGTTATGGAC AGTGAGCAGC AGAAAC	
TGTAACTCAA TTCAGCATAC TTGATGGTTG TGGTAACCCT AGAAAATGAC TCCAGG	
AGGTGAGAAT CCAATCTATC TCGAG	325
(2) INFORMATION FOR SEQ ID NO:1218:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 293 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1218:	
(XI) SEQUENCE DESCRIPTION: SEQ ID NO:1218:	
GAATTCGGCC TTCATGGCCT ACAGAGATAG GGTCCCATCC AGGTTCCTAA CTGGGT	
CATGCATGGG CTAGATCCAA ATAGCATTGC AAAGGCCTGG AAAACAGAAC TAGAAT	
ACCACCGCGG AAGACTCATT CGAACTCGTG GGCTGAACTC AACCAGGTCA ATGCTT	
AAAATACCAG CATTCTCCAC AGGACATAAA CAAGATTGTC TCATAACATA CCATTC	
TATTAGGATA CAATCCAAAA TTGCTCATCA TAAGAAGACA GGAAAAACTC GAG	293
(2) INFORMATION FOR SEQ ID NO:1219:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 265 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: double	

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1219:

GAATTCGGCC T	TCATGGCCT	ACGAGGATTG	GGGTAGGTAT	GNGCTTTNGG	CTCATGTTTG	60
TGATGATAAC T	GAAGTCTNT	TGTGGGTCCG	ACCTGTTGTA	GGGTGTGGGG	GAAAGTGAAG	120
GAAGAGAATG A	AGGTGAGTC	CCCGCCGTTG	CAAACCTTCA	CCAAACCACG	CGGCCCAGTT	180
TTCGTGAGTA C	CCCTGTGTC	CCAGAGAGGA	GGACCCAGCG	TCCTCGGCTC	TGCCGCAGGC	240
CTTCTTGGTC T	GGTGGGTAC	TCGAG				265

- (2) INFORMATION FOR SEQ ID NO:1220:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 266 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1220:

GAATTCGGCC	TTCATGGCCT	AAGGAATTGA	AACCCAGTAC	TTTGCAGAAC	TTCTTATGAC	60
TTCTGGAGTG	GTCCTCTGTG	AAGGGGTCAA	ATGGTTGTCA	TTTCATAGCG	GTTACGACTT	120
TGGCTACTTA	ATCAAAATCC	TAACCAACTC	TAACTTGCCT	GAAGAAGAAC	TTGACTTCTT	180
TGAGATCCTT	CGATTGTTTT	TTCCTGTCAT	TTATGATGTG	AAGTACCTCA	TGAAGAGCTG	240
CAAAAATCTC	AAAGGGGGAT	CTCGAG				266

- (2) INFORMATION FOR SEQ ID NO:1221:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 312 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1221:

GAATTCGGCC	TTCATGGCCT	AGCTCATTCT	GCTGGGGGTA	GAGATGAGGG	GAGGGAGTAA	60
GTTAAACCTT	GGACTAGCAA	GTAGAAGCCT	GGGGGGATGC	GTGTGCCTCA	GTTTCCTCCT	120
CCACAACTGA	ATATAGTGGC	TGAAAACTGG	GGAGATACTT	GATGGCGCGA	ATGTCCGTTT	180
TCTCTCCCTT	CCCACCTCCT	GCAGGAAGCA	GGACGGGGCA	GGCAGCACCT	GGTAGGCACA	240
GTGCTTTGCC	CCTCCTCCCC	TTCCCTTCTG	GAAGTCTTGG	GGCCTCAGTG	CTTGCAACAG	300
CCACTCCTCG	AG					312

- (2) INFORMATION FOR SEQ ID NO:1222:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 512 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1222:

GCGATTGAAT	TCTAGACCTG	CTGGCCTCAA	GTGAACCTCC	CGCCTCGGCC	TCCCAACGTG	60
CTGGTATTAC	GGGCATGAGT	CATTGTGCCC	AGTCACAGAA	TTCATTTTAT	TTGTGAAAAT	120
ACAGTGGTAC	AAGTAGGCCT	TTGTTAAATG	ACTAACCTGA	AACCTCTTGT	GAATGACAAA	180
CTCCTCTCTA	CTCCAAATAC	TGGCCCATCC	CTGCTTAAAT	ACTGCTCAAT	GAAGTTACTC	240
ATGCTAGTTC	TTGAGGGAGT	AACTCTAGAA	TGATTCCATC	TAGGAAGACA	TAAGATAAAA	300
TGGTAAGTAT	TCTAAGTTCT	ATAGGTAGTT	TAGTCATGCC	ATATTATAAA	CCTCCACTCC	360
AAAAATAGTG	TGAGGTCATT	TCTGGCCAGA	GTGAAATAAA	AAATGTATAA	TGCCTGAACA	420
GTCTATTATT	CTGACAATGA	AAAAGATTAA	TGCAGTTCCC	${\tt TTTATCACTT}$	GCATGAGTAA	480
AAAAATATAT	ATATATATTG	GCTGGGCTCG	AG			512

- (2) INFORMATION FOR SEQ ID NO:1223:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 447 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1223:

AAGAAT ACAAGTAACI	GATGAATGAA	GGGGGCATCT	TGTGTCCCCA	60
CGCACAC CACAGGTGAC	CCGTTCTGCC	TAAGGGAACA	GCCCCGGCCC	120
CTCCCCA GCACCGTCTC	CTCCACCCAG	TGGCCTGGCC	GTGGATGCTG	180
TTGAGA CACCGCCCTC	ACACGTGTCC	AGCCTTACGT	GGAAGGATTT	240
CATCCTA GTAGATGCCA	CGTTAGTAGA	TGCCATGTTA	GTAGAAGGGA	300
TTGTAAG TTCCCAAAAG	CCTATGAGGG	TTTTTTCCAC	GATTCCGTTC	360
GTTGTT GTTGTGGCTC	TTCTTGGCCC	CCCTGGGCCC	TGCAGTGGAG	420
TGGGAG CCTCGAG				447
	GCACAC CACAGGTGAG TCCCCA GCACCGTCTC TTGAGA CACCGCCTG ATCCTA GTAGATGCCA TGTAAG TTCCCAAAAG GTTGTT GTTGTGGCTG	GCACAC CACAGGTGAG CCGTTCTGCC TCCCCA GCACCGTCTC CTCCACCCAG TTGAGA CACCGCCCTG ACACGTGTCC ATCCTA GTAGATGCCA CGTTAGTAGA TGTAAG TTCCCAAAAG CCTATGAGGG GTTGTT GTTGTGGCCC	GCACAC CACAGGTGAG CCGTTCTGCC TAAGGGAACA TCCCCA GCACCGTCTC CTCCACCAG TGGCCTGGCC TTGAGA CACCGCCCTG ACACGTGTCC AGCCTTACGT ATCCTA GTAGATGCCA CGTTAGTAGA TGCCATGTTA TGTAAG TTCCCAAAAG CCTATGAGGG TTTTTTCCAC TGTTGTT GTTGTGGCCT TTCTTGGCCC CCCTGGGCCC	ANGART ACAAGTAACT GATGAATGAA GGGGGCATCT TGTGTCCCCA GCACACC CACAGGTGAG CCGTTCTGCC TAAGGGAACA GCCCCGGCCC TCCCCA GCACCGTCTC CTCCACCCAG TGGCCTGGCC GTGGATGCTG TTTGAGA CACCGCCCTG ACACCGTTCC ACCCTTACCGT GGAAGGATTT ATCCTA GTAGATGCCA CGTTAGTAGA TGCCATGTTA GTAGAAGGGA TGTAAG TTCCCAAAAG CCTATGAGGG TTTTTCCAC GATTCCGTTC GTTGTT GTTGTGGCTG TTCTTGGCCC CCCTGGGCCC TGCAGTGGAG TGGGAG CCTCGAG

- (2) INFORMATION FOR SEQ ID NO:1224:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 235 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1224:

GP	ATTCGGCC	TTCATGGCCT	ACTTTGTTTT	ATATAATAAA	GTATGCCTGT	TATATTAAAT	60
ΑÆ	TAAGAATA	TGGCAATTAG	CGATATAGCA	TACCCAAACA	AAGATGTTCT	CGATACAGTC	120
TO	GCAAAGAC	TATCCCAAGG	TTATTTTAAT	GAATTCAGAC	ATTTTTTCCT	GTGGATATTT	180
CI	CCATCCTA	AAAAAAGTGG	CAACCAAGGA	AAATATTTAG	ATGCAAATAC	TCGAG	235

- (2) INFORMATION FOR SEQ ID NO:1225:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 134 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1225:

GCGATTGAAT TCTAGA	CCTG CCTCGAGACT	GACGCCGCAC	CATGACCCTC	CTGCTGCTGC	60
CCCTTCTGCT GGCCTC	TCTG CTCGCGTCCT	GCTCCTGTAA	CAAAGCCAAC	AAGCACAAGC	120
CACCGCATCT CGAG					134

- (2) INFORMATION FOR SEQ ID NO:1226:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 556 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1226:

GAATTCGGCC	TTCATGGCCT	ACACACATCT	GGTAAGCAGA	AGCACGGAAG	GCCTTTGTTT	60
CAGACAATCT	TTTAAATGAT	GTTTGTATAG	GGAACAGCTT	TGGAAGATAA	AGAATGTCTC	120
TCTCTCTTAT	GGTTTGAATG	TGTCTCCAAC	ACTTTATGTG	TTGAGACTTC	ATCCCCAGTG	180
TAACAGTATT	GGGAAGTGGA	GCCTTTAAGA	GCTAATTAGG	TCATGAGGAC	AGCTCGCTCA	240
TGAGTTGACT	AAAGCTGATA	ATGTGGGAAC	GTGTTGGTTA	TCACAGGAGT	GAGTTCCTGA	300
TAAAAAGAAT	GAGTTTGGCC	AGATTGTCTC	TGTCTGTCTC	ATCTGCCTGC	TTCCACCTTC	360
TGTACTTCCA	CCTGGAATGA	CCCTCACCGG	ATGCTGGTGC	CATGCTCTTG	GACTTCCCAG	420
CATCCAGAAC	TTCTGTTTTT	ATAAATTACC	CAGTCTATGG	CATTCTGTTA	TAGCAGCAGA	480
AAATGGACAG	AGACACCCTC	AAATTAAAGG	ACAGTCTTGC	TGACTATGAA	TTAGAAAATA	540
TCTGGGTTAG	CTCGAG					556

- (2) INFORMATION FOR SEQ ID NO:1227:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 175 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1227:

GAATTCGGCC	TTCATGGCCT	ACCTGCCTCG	AAATACTACC	GTATGGCCCA	CCATAATTAC	60
CCCCATACTC	CTTACACTAT	TCCTCATCAC	CCAACTAAAA	ATATTAAACA	CAAACTACCA	120
CCTACTTCCC	TCACCAAAGC	CCATAAAAAT	TATTAAAAAA	AACAAACCAC	TCGAG	175

- (2) INFORMATION FOR SEQ ID NO:1228:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 220 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1228:
- GAATTCGGCC TTCATGGCCT ACTGTTTCCT TGCCCTTTTC ACCGTCTGGT GGTTCCCTGC

TGTCATCACA	TTGTGGCCCT CTCATCCATC TTCCGAGCCT AGCACTCCAG TCTCTGCTTC TCGCCTTCTC TTGAGAAAGA TCCCAGGCTG GTATTTAAAT TGCCTGTTGG GCCTGTCTTC CCCTACCCCC ACAGCTCGAG	120 180 220
	ATION FOR SEQ ID NO:1229:	
	SEQUENCE CHARACTERISTICS:	
(1)	(A) LENGTH: 526 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1229:	
GAATTCGGCC	TTCATGGCCT AAGTCTCTTG ACATCTCAAT TTACCCCAGA ACATCTCTAT	60
	CCTGAGGAGG GGAAGTTGGG TATGGCGGTT GGAGGTGGAC AGGCTCCTAA	120
	CCAGCAGGGG GCACTCCCAG TTTTCGCTCC GCTGAGTCAC CCAACCCCTG	180
AGGCTTCGCC	ACTITICTAAT GTTTGCTGTG GCTACAATGG TCAGACCCAC AGGCAAAAAA	240
	CTGGAGTCCC TGACCCCTCT TCCTCTCTAT AACGATTGGA AACTGTCCAA	300
	GTAGTTCTGG GCTGATGAAT CATCCTCTTG TGGGGCGGAG AGTGGGGGTA	360
	ATGTGGGCTA GGACCCAGGG CAGGATCAAA ATCTCTGAAG ATGCAGAGCT	420
	TGGGAAGAAG GAAGCAGGAT TTATTATAAC ATTTAGCTCA CTGTCCAATC AGCTCTCCCA GGGCTCGGGC CAACTGTCGA CTCGAG	480 526
		320
(2) INFORMA	ATION FOR SEQ ID NO:1230:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 312 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(vi)	SEQUENCE DESCRIPTION: SEQ ID NO:1230:	
(XI)	SEQUENCE DESCRIPTION. SEQ ID NO:1230:	
GAATTCGGCC	TTCATGGCCT ACCATTGGGC TATGACCTGA GGAGAATCAA GGTAGCTTTC	60
	TGGACATCGT GGATATAAGG AATGCTCTCG TAGGAGGGTA CAAGAACCCC	120
	CAATAGAGAA GGCCCAGGGG CCCATCCTGC TCATNGTTGG TCAGGATGAC	180
	GAAGTGAGTT GTATGCCCAA ACAGTCTCTG AACGGTTACA GGCCCATGGA	240
TTCCCCCTCG	CCCAGATCAT CTGTTACCCT GGGACTGGGC ATTACATCGA GCCTCCTTAC AG	300 312
(2) INFORM	ATION FOR SEQ ID NO:1231:	
(i)	SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 297 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: double	
	(D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1231:	
GAATTCGGCC	TTCATGGCCT AGCTTTATCC ACTCTGGAAT CCTGGAGGAG CCGCTACAAC	60

CTGGTGGAGA	TAAACCAACA ACAAACCTG GAGGAGAAGA TGCGGGAAGA CCGGGATAGC GACTACACCG TCAGACTGCT GAGTATTCCG CATTCAAGCT GGAGAATGAG CCAGCTTTGC TCCAATGGAG GACAAACTCA ACCAGGCACA CCTCGAG	180 240 297
(2) INFORM	ATION FOR SEQ ID NO:1232:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 360 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1232:	
AGCAGCACTG GGAAAACTTG CCTTTGGAAC AACGAAGCCT	TTCATGGCCT ACGCAGCTCT ACCTGCTCCA GGGGCACCTG GACCTGTGTG TGCCATCCTC CTGCAGACTG AGCAGAACCA TGAGACCGCT TCTGTGAAGT AAGACATTCC TGCCTTCTTT GAATTGGCCA AGAAGGTGTC TAGCCGGGTG CAGGGTTCAA TTACTGCAGA GGTATCTACT GCTGGCACAT AGGGCAGCCC TAAAGTTCCT GAACAAGGCA CGCAAGGACA GCACTTGGGG CCAGAGCGCC TGGTGCAGAT CCAGACCAACG AGGTTATGGT GCGGCTCGAG	60 120 180 240 300 360
(2) INFORM	ATION FOR SEQ ID NO:1233:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 423 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1233:	
TTTTGCCTGT AGGTGGTCTG CAGTTCTTGT GGTATTAGAA AGGGAGGGAG	TTCATGGCCT AGAAGGACTG AAATGATGTT ATACTAAGGG CTACTGAACT TCTTTCCAGG TGTGACCAGCC TTTCTTTTC TTTCCAGGTG GTTCGCTTTG AAGCCAAGGC CTCGCGGAGC TTCTTTGTGT GTCACCTTGC TTCCACGGTT TTTGTTTCTA CTGCTTTAGT TTTTTTAAA GTTCTCAGT GTCCCCAAGA TCTTGCTGTA CCCAAGCAAG ACGTTAATTT TTCTTTTAAC TGTTTTGGGG TGATAGCTTA ACTGCTGAAG CCAGGCGGGG GTCTGCTGGA GGATTCCAAC TCCTCCACTG TACAATGTCA CAGACTATCT CTATCATCAT TGCTTTGTGG	60 120 180 240 300 360 420 423
(2) INFORM	ATION FOR SEQ ID NO:1234:	
(ij	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 475 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1234:	
TAGAAGGGCA	TTCATGGCCT AGCATGTAAA ACTTCAGTCC TGAACATTTA TAGGGTTTTA TCCTCCAGGG CTGGTCCATT CAGAGAAATG CTGCATGCT CCGTCATGGA	120

GCTGAGCAAA	CCCTCCAAAG	CCCTCCTCAC	GCAGTTACTA	ACAATAGCAT	GGGCTTACAG	240
				AAGGTTTGGC		300
				TGGATTTTTA		360
				AATTTTCCAT		420
TTCAGCATAT	TGCATGCTGC	TCAGACCCCA	AGTCAGATAT	GCCCACAAGC	TCGAG	475

- (2) INFORMATION FOR SEQ ID NO:1235:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 301 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1235:

GTTTTGAGCC	TAGTAGCACT	ACCTTCCAAG	TGAGTCACAA	CAAATTTGAT	CCTATTTGGT	60
ATGTTTTTGT	CCACTGTTAT	GATTNATCAT	GTATCTTACA	AGAGCCACTC	AAGCAAGACT	120
CTGCTTCTAT	GTATGGTGAG	GCCTNGTTGT	TCTAGGCTAG	AATAAACTCT	TTGTATGCCT	180
CATTGAATAT	GCCAGGTAAA	ATTTATGCAG	TCAAGAATGA	ATTATTTTTC	TGACTAAAGT	240
GTGTAGCAGT	AGTTCAAAAT	TGTGCCCTTG	TTTTAACAGT	TTCTGTCNAC	ACCTTCTCGA	300
G			•			301

- (2) INFORMATION FOR SEQ ID NO:1236:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 346 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1236:

GAATTCGGCC	TTCATGGCCT	AAGAGAAGAT	AACATTTACA	AGTAAACAGT	AAGTGCAATT	60
GTATTTTAAT	TTCTTGGTCT	CCGAAAACTC	AGCTGTGACT	GCTTTCCATT	AACAGTTCCA	120
GCTCTATGTG	TTTCCTCTAA	CGCTAAAGGC	ACAGCCCCCG	GGAATCTACT	GCTTCCTAAG	180
AGTCTCCATG	GAGTCTATTT	TACAACCTCC	TTTCCCTCCA	TGCTTCCGCG	GAGGAGTCTA	240
TACTATCTCT	ATATACACAT	TTTAAACATT	ATTCTTCATT	TGAAATTCCT	TCAATAAAAA	300
CACAGTCACC	ATTCTTCATC	TTCTTGGGAA	ATGGCCTGCT	CTCGAG		346

- (2) INFORMATION FOR SEQ ID NO:1237:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 355 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1237:

GAATTCGGCC	TTCATGGCCT	ACTCACTATG	TTGCTCAGGC	GGATGTGGAA	CTCCTGGGCT	60
CAAGCGATTC	TCCTGCCTTG	GCCCCCAAAG	TGCTGGGATT	ACAGGTGTGA	GTCATGGCAG	120
CCACGGCTCC	AGAGCTCGGG	TTCTTAATCT	GGTCTGTGGA	TGGCCCCTGG	GGGCGGTCCC	180

ATGAGCCCCT	CACAATTGGA	CACAGTTTTG	CAAAGGGGTA	AAAGGACAAG	AATCGGTAGC	240
TGTGACTGTG	GATGAGCCTC	TGAGCTTCAC	TTTCCCTCCC	TGAAAGGGGG	TGACAGTGGC	300
ACCTCCCTGG	AGGTTTTCGT	GGAGGGGAGG	AAACACATGT	AAAATACTTC	ACCCC	355

- (2) INFORMATION FOR SEQ ID NO:1238:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 560 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1238:

GAATTCGGCC	AAAGAGGCCT	ACTAGACCTG	ATCACCACGT	TCAAAAGTTG	GCTTTCTCCA	60
TTTTAAGTTC	TTCCTTAAAG	CCTCTTTAAG	CAAAGTCCCT	GAAATGATAC	AGTAGAAAAA	120
TCACACAGAC	TTATTTAAAA	TGAATTCTAT	CACTATTCCT	GAGATCTCGC	CTGCCCCACT	180
GAGGACATTT	TGTTTTCGCA	AAGTGCTTTG	AAATGTGATA	AAGGATCTTA	AAGAATATTT	240
GTAAAATTAT	GCCCAAAGAA	GACATTCTTT	GAGGTTAACT	TGCAGTGTCT	AAAAGTCAAG	300
AATGAGGAAG	GAAAGGAAAA	TAACAGATTC	ACTTTAAAAT	GGACCACGCT	AATTGGGCAG	360
TGAAACATCC	TTGTGTCACA	CCATTTACCG	TAGCAGACCA	GAAGAGGGAA	AAGGCTTGAT	420
TTTTCTCTCA	TAGATACCAC	AGTTCACTCT	CAAAAACATT	CCTAAAATGG	ATTGATATTT	480
CTCTGATAGA	GCACCTGTTT	TGCTACTGAC	AGTGTTAAGT	TCCATACTAA	TCAGCTCATC	540
TAGCCTAACG	ACAACTCGAG					560

- (2) INFORMATION FOR SEQ ID NO:1239:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 569 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1239:

GAATTCGGNC	AAAGAGGCCT	AAGGAGAANG	AGGCTCAGAA	GGAGACGATT	AAGGATCTTC	60
CCAAGATGAA	CCAGGAGCAG	TTCATTGAGC	TGTGCAAGAC	GCTTTACAAC	ATGTTCAGTG	120
ANGACCCCAT	GGAGCAGGAC	CTGTACCACG	CCATCGCCAC	CGTGGCCAGC	CTCCTGCTCC	180
GCATCGGAGA	GGTGGGGAAG	AAGTTCTCAG	CCCGCACAGG	CAGGAAGCCC	AGGGACTGTG	240
CCACTGAGGA	GGACGAGCCA	CCAGCACCCG	AACTGCATCA	GGACGCAGCC	AGGGAGCTTC	300
AGCCCCCAGC	TGCAGGAGAC	CCCCAAGCCA	AAGCAGGCGG	AGACACACAC	CTCGGAACAG	360
CCCCACAGGA	GAGCCAGGTG	GTGGTGGAGG	GGGGCAGCGG	CGAGGGACAG	GGCTCACCCT	420
CCCAGCTGCT	GTCTGACGAT	GAAACCAAAG	ACGACATGTC	CATGTCCTCC	TACTCGGTGG	480
TCAGCACGGG	CTCCCTGCAA	TGTGAAGACC	TTGCAGACGA	CACGGTGCTG	GTGGGCGGGG	540
AGGCCTGCAG	CCCCACAGCG	CGACTCGAG				569

- (2) INFORMATION FOR SEQ ID NO:1240:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 405 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1240:

GAATTCGGCC	AAAGAGGCCT	AGAGACCAGC	CTGGCCAATA	CGGTGAAACC	CTGTCGCTAC	60
TAAAAATACA	AAAATTAGCC	AGGCATGGTG	GCTCACACCT	GCAGTCCTAG	CTACTTGGGA	120
GGGTGAGGCA	GGAGAATCAC	TGAAGCTTGG	GAGGCAGAGG	TTGCAGTGAG	CCAAGATTCC	180
ACCGCTTCCC	TCCAGCCTGG	ATGACAGAGT	GAGACTCCGT	CTCAAAAAAA	САААААААА	240
GTTACTTCAA	TAATGTACTT	TTTTTTTCA	AATTACAGAT	AATCTATAAG	GAATTAATCT	300
TGAAATTAAT	TCCAGGTTTA	ATTGTTAATG	AAATTTCACA	AGCCTAATTT	AACACTTGTC	360
TGGATAACTC	ATTTTGATAC	TGAGTAAATA	GTCACCGGTC	TCGAG		405

## (2) INFORMATION FOR SEQ ID NO:1241:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 542 base pairs
    (B) TYPE: nucleic acid

  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1241:

GAATTCGGCC	AAAGAGGCCT	AGGGCTTTTG	TGAATAAATT	TTAAAAGAGA	CTACTGCCTG	60
TCCTTAAATT	CCTTTTTCTT	TTTATAAAAA	AAGAACTATT	AAAAATGATT	GACAAATTTT	120
GAGTTAAAAA	ATTGTTAAAA	CATTCTCTAT	ATTTAATTTC	AATTTTATAA	TAGATTACAG	180
GAAGATGCTT	ATGAAACAAA	TACATTTGTT	TCAGTACATG	TCTTTAAATG	ATAGACTTAT	240
AAGTATGTAA	ACAACTATAT	AATAAAAGGT	TTCCAAACGC	TGCCTGTAAG	AAATCAGGCA	300
AATTTTACCA	TAAGCAATAA	ACCATTCCAA	GCCTTCCAGA	CAGTCTCCAT	AGCCGCACCA	360
GCATGGCAAT	AAGCTTTAAC	CAAACGAAAA	CAAACAAACA	AAAGCACTTC	GCAATTTGTT	420
GCTGCAAAAC	AGGGAGAGAA	AAGAGTGTAC	AAACTTGATG	GAATCACAAC	AGTCAATATA	480
ATTTAAGGGA	CAATAAAGTC	AATAAGGTTG	ATGGTGTTTA	TTGTTTAAAA	AGTTAGGCCT	540
CT						542

- (2) INFORMATION FOR SEQ ID NO:1242:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 370 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1242:

GAATTCGGCC	AAAGAGGCCT	ACTGATACAA	TTGTTGACTT	TTCTTTTACT	ATGTGTAAGA	60
AATACCCCAA	ACATGAAAAG	ATTGTTTTGA	TCATATGCAT	GTATGTAGAA	TATTTTTGCA	120
GAGCAGAAAG	ATTATGTTAG	AAGTGTGATT	TTTATTTTCA	GAAGTCATAT	ACATGTAAGC	180
TACAATTTTG	AGTGCTTTAT	AAACACTTAA	GATATATATA	TAAATTTTAA	TTTCATAGCA	240
ACTTGTAAAA	AATAAAATAC	TTGTTGAAAA	GCCTTTTTCA	ACATATCCCT	AAGCTAAGGG	300
AAGAGGAAGG	AATAACAACT	CAGTGAAAAG	ATGGTCTCCA	GTTTCTGAAT	GAAAAAGCTA	360
CAACCTCGAG						370

- (2) INFORMATION FOR SEQ ID NO:1243:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 374 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1243:

GAATTCGGCC AAAGAGGCCT	AGCCTCATCA	CGGGCAGGGC	TCTGGCCCAT	AGTGGCTGGA		60
CAGACACTGG CACAGTCTTG	CTGGTCTGCT	GGGAGCACAC	AGACATTGGC	ACAGACTTGC		120
TGGTCTCTTG GAAGAGGGCA	AGACCCCAAA	CCAGAGCAAA	ATACACTTCC	AGCTCTTAAC		180
CAGGCTCCTT CCAGTCACAA	GTGTGCAGAA	TCAGAACAGA	AGTAGTACCA	ATCAATGTCA	,	240
CATGAACAAA CAAGCTGCCC	CCAGGGTACC	ATTTGGGGAG	GGGAAATCTT	TTCTTTCTTT		300
CCCCCTTAAA AAAAAACACA	TCTGCCCCGA	ACACTTTCCC	ACTGTTATTC	TTTCCTCATA		360
CCCCAACGCT CGAG						374

- (2) INFORMATION FOR SEQ ID NO:1244:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 468 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1244:

GAATTCGGCC	AAAGAGGCCT	ACACACCAAA	CTGATTATCC	ACCAGACACT	CAGCGTCTTA	60
GAAGATATTG	TGGAGAATAT	CTCGGGGGAG	TCCACCAAGT	CTCGACAGAT	TTGCTACCAG	120
TCGCTGCAGG	AATCTGTTCA	GGTCTCCCTG	GCCCTCTTTC	CAGCTTTTAT	CCATCAGTCA	180
GATGTGACTG	ATGAGATGCT	GAGCTTCTTC	CTCACTCTGT	TTCGAGGCCT	TAGAGTACAG	240
ATGGGTGTGC	CTTTCACTGA	GCAAATCATA	CAGACTTTCC	TCAACATGTT	TACCAGAGAG	300
CAGTTAGCCG	AGAGCATCCT	CCACGAGGGC	AGCACAGGCT	GCCGGGTGGT	GGAGAAGTTT	360
CTGAAGATCC	TGCAGGTGGT	GGTCCAGGAG	CCAGGCCAGG	TGTTCAAGCC	CTTCCTCCCC	420
AGCATCATCG	CCCTGTGCAT	GGAGCAAGTG	TATCCCATTT	CGCTCGAG		468

- (2) INFORMATION FOR SEQ ID NO:1245:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 444 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1245:

GAATTCGGCC AAAGAGC	GCCT AAGCTTATGG GGA	GGACACA TATTTACTCA	AACATCCTGG	60
CAATTCATAT CTAGGGG	CACT CCCTCTGTGT GTC	AGACGCC CTTGCATGTG	TCAAATGTCA	120
TCTGATAACA TTGATGA	AAAA ATATCATTCA CTT	CTTCTTG GTGCAGAAGG	CATAGACCGG	180
ATTATGCAAT CACTGAG	SAAG TAGCTTCTGG ATG	TGTTTTC TGGTGGCGTC	TTAACAATTT	240
CAGCCGACTG AAGGCT	CTTG GACACTTGGA ACA	TTTGTAG GGTTTCTCTC	CGGAGTGGAT	300
GCGCTGGTGC TCCTTC	AGGC TCCCCCTGTA GGT	GAAAACT TTCTTGCAGT	CTTTACATTC	360
GAAGGGCTTC TCCCCC	IGTG TGGCTTCTCT TGT	GACACTT CAAGTAGGAC	TTCTGGGTGA	420
ACTGCTTAGG CCTCTT	rggc cgag			444

- (2) INFORMATION FOR SEQ ID NO:1246:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1246:

GAATTCGGCC	AAAGAGGCCT	AGTATTTTGT	ACTAGTTTTT	TAATAATTAT	AAGTCTTACA	60
CGTTCTCTAA	TTCTTCTTGA	ATCTGTTTAA	TTTTTCTCCC	TTGGGAATTG	TTAAGTGTAC	120
ATGTATTGTG	ATAACTGCTA	TAATTTTGCT	TTTATTGATT	TTTTTTGCTT	TATATCTGCT	180
ACAATTTGGT	TCCTCCAAAT	CCCATGTTGA	AATCTGATCC	CCAGTGTTGC	TGGGGGATCT	240
AATAGCAGGT	GTTTGGGTCA	TGGGAACAGG	TCCCTCATGA	ATGAATTAAT	GCCCTCACTG	300
GGAGGAGGGG	ATAAGTAAGC	TCTCACTCAT	TTAGTTCCCA	AGACAGCTGG	TTGTTTAAAA	360
GAGCCTAGTG	CCACTTCTCT	CTTGCTTCCT	TTCTTGCCGT	GTGATCTCTG	CACATGCCAG	420
CTCCCCTCGA	G					431

- (2) INFORMATION FOR SEQ ID NO:1247:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 389 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1247:

GAATTCGGCC	AAAGAGGCCT	ATTTTTTTTT	TTTTTTTTT	TTTTTTTTTT	TCNGGGTGTA	60
GAACATTTAT	TTATTTTTCC	CACAAATCAC	TGAAAGTTTA	GGTCAGTGGG	AAATAATTTT	120
AATCAAATAA	TTGTACATAT	TCTTCCCACA	TATCCTGCCT	TGTATTAGGA	AATGACATTG	180
TGATCCATTT	CATTACAAGT	AAAATATTAC	AAAATATTTA	CAGGAAAATA	TTAAAAATAA	240
CTCAAACACA	AAAGGCAAGA	TGAAATAAAC	TGTTTTTTT	TCTCCAGAAA	TCTCTACTCC	300
AGTGCCCACA	GCACACAAGA	GTCAAAACAA	ATAAGCAACT	AAGATCCCCC	GATCACAAAT	360
TTCCAAAGAA	CTAGGCCTCT	TTGGCCGAA				389

- (2) INFORMATION FOR SEQ ID NO:1248:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 380 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1248:

GAATTCGGCC	AAAGAGGCCT	AAAGGAAGGC	CACTTCTCAA	CTGGCAGAAC	TTCTGAAGTT	60
TAGAATTGGA	ATTACTTCCT	TACTAGTGTC	TTTTGGCTTA	AATTTTGTCT	TTTGAAGTTG	120
AATGCTTAAT	CCCGGGAAAG	AGGAACAGGA	GTGCCAGACT	CCTGGTCTTT	CCAGTTTAGA	180
AAAGGCTCTG	TGCCAAGGAG	GGACCACAGG	AGCTGGGACC	TGCCTGCCCC	TGTCTTTTCC	240
CCTTGGTTTT	GTGTTACAAG	AGTTGTTGGA	GACAGTTTCA	GATGATTATT	TAATTTGTAA	300
ATATTGTACA	ATTTTAATA	GCTTAAATTG	TATATACAGC	CAAATAAAAA	CTTGCATTAA	360
CTTAGGCCTC	TTTGGCCGAA					380

(2) INFORMATION FOR SEQ ID NO:1249:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 386 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1249:

50
20
30
10
00
60
36

- (2) INFORMATION FOR SEQ ID NO:1250:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 428 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1250:

GAATTCGGCC	AAAGAGGCCT	AACCATGTCT	GACCAGATCA	TTGGGAGAAT	TGATGATATG	60
AGTAGTCGCA	TTGATGATCT	GGAAAAGAAT	ATCGCGGACC	TCATGACACA	GGCTGGGGTG	120
GAAGAACTGG	AAAGTGAAAA	CAAGATACCT	GCCACGCAAA	AGAGTTGAAG	GTTGCTAATA	180
ATTTATACTG	GAATCTGGCA	TTTTTCCAAG	CCAAGAGAAG	ATCGAATGGC	TTTTTGCAGC	240
TAACTACTAT	GTGTAGACAG	GTTTTATATT	ATAAAGTATG	CATTCTTATC	ACCTAGTATA	300
TAGTTAGTTT	GTAGAGTGAT	TTCCCCCCAG	TTTCTTGAAC	ATGGTATCTT	CACATCTTGG	360
ACCTTGGTCA	GTTGTGCTAT	TCATTATTAA	ACACTAAAAC	TTTGGCGGTT	TAGGCCTCTT	420
TGGCCGAA						428

- (2) INFORMATION FOR SEQ ID NO:1251:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 264 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1251:

GCCT AAGAAAAGTA G	TATGAATGA GTTTTTCTAC	ATATTAACTA	60
GTGA AATGTTTTTC C	ATTTTTAAA TGTAAGAGTO	TCTATCTCCA 1	20
GCACT GCTAGGGGTC T	TAGGCTAAC ATCTGCCACC	CCACCAGTCT 1	80
AGGTG CAGAGGACCA G	AGTTCACCT GTCAGCAGCA	CCGCAGAATC 2	40
TTGGC CGAA		2	64
	IGTGA AATGTTTTTC C SCACT GCTAGGGGTC T	TGTGA AATGTTTTTC CATTTTTAAA TGTAAGAGTC GCACT GCTAGGGGTC TTAGGCTAAC ATCTGCCACC AGGTG CAGAGGACCA GAGTTCACCT GTCAGCAGCA	TOTGA AATGTTTTC CATTTTAAA TGTAAGAGTC TCTATCTCCA  GCACT GCTAGGGGTC TTAGGCTAAC ATCTGCCACC CCACCAGTCT  AGGTG CAGAGGACCA GAGTTCACCT GTCAGCAGCA CCGCAGAATC  2.

(2) INFORMATION FOR SEQ ID NO:1252:

PCT/US98/06956 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 436 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1252: GAATTCGGCC AAAGAGGCCT ACTTTTTTT TAATTTTCCA CTTTCTTCTT AACTTTACTT 60 CTCTTTTTGT CCCCCCCAT CTTACAGAAG TTGAGGCCAA GGGAGAATGG TAGGCACAGA 120 AGAAACATGG CAAACTGCTC TGTGCTTTCA AACCAAAGTG TTCCCCCCAA CCCCAAATTT 180 GTCTAAGCAC TGGCCAGTCT GTTGTGGGCA TTGTTTTCTA CAACCAAATC TGGGTTTTTT 240 TCTTCTTTCT TTAAACATAG AGGTACCACC ACAAGGGATG CCCTACTCTC TCGCAGCTCT 300 TGAAAGCATC TGTTTGAGGG AAAGGTCTCT GGGCAAGCAA GTGGTTATTT GGATTGCTTG 360 CTTCCCTTTT TCCACCTGGG ACATTGCAAT CATAAAATAA CAGTAAATTC CAAACCTCTA 420 GGCCTCTTTG GCCGAA 436 (2) INFORMATION FOR SEQ ID NO:1253: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 399 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1253: GAATTCGGCC AAAGAGGCCT AGGGTAGATC ACTTGATATC AGGAGTCGAG GCGGGAAGAT 60 CACTTGACGT CAGGAGTTCG AGACTGGCCC GGCCAACATG GTGAAACCGC ATCTCCACTA 120 AAAATACAAA AATTAGCCTG GTGTGGTGGT GGGCACCTGT AATCCCAGTG ACTTGGGAGG 180 CTAAGGCAGG AGAATTTCTT GAACCCAGGA GGCAGAGGTT GCAGTGACCA GCAAGGTTGC 240 GCCATTGCAC CCCAGCCTGG GCGATAAGAG TGAAAACTCC ATCTCAAAAA AAAAAAAAA 300 AAATTCCTTT GGGAAGGCCT TCTACATAAA AATCTTCAAC ATGAGACTGG AAAAAAGGGT 360 ATGGGATCAT CACCGGACCT TTGGCTTTTA CAGCTCGAG (2) INFORMATION FOR SEQ ID NO:1254: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 444 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEO ID NO:1254:

GAATTCGGCC AAAGAGGCCT	ACCCGGTACT	TACTTCTCAA	TCCTAAAGAG	AGAAAACAGG	60
TGTTTGATCA GTATGTAAAG	ACCAGGGCAG	AGGAAGAACG	CAGGGAAAAG	AAAATAAAA	120
ATGCAAGCCA AGGAAGATTT	CAAAAAAATG	ATGGAAGAAG	CAAAATTTAA	TCCAAGAGCA	180
ACTTTTAGTG AATTTGCAGC	CAAGCATGCT	AAAGATTCAA	GATTCAAAGC	AATTGAAAAG	240
ATGAAAGACC GAGAAGCCTT	GTTTAATGAG	TTTGTGGCCG	CTGCTAGGAA	GAAAGAGAAA	300
GAAGATTCGA AGACCAGAGG	TGAGAAGGTA	AGATGGTTTT	AGTTCCAGTG	GTGTGATTGA	360
TGGGAGTGTG AATGGGAAAG	GTCTATGCTG	GTGTTATGTT	TCTAACCTTA	TTCATTGGCA	420
TAAATAATAG GACGTACACT	CGAG				444

- (2) INFORMATION FOR SEQ ID NO:1255:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 284 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1255:

GAATTCGGCC TTCATGGCCT AAGA	AGGACT ACCCTGCACT	GCTTTCCTTG	GATGAGAATG	60
AACTCGAAGA GCAGTTTGTG AAAC	GACACG GTCCAGGGG	CCAGGCAACC	AACAAAACCA	120
GCAACTGCGT GGTGNTGAAG CACA	ATCCCCT CAGGCATCGT	TGTAAAGTGC	CATCAGACAA	180
GATCAGTTGA TCAGAACAGA AAGC	TAGCTC GGAAAATCCT	ACAAGAGAAA	GTAGATGTTT	240
TCTACAATGG TGAAAACAGT CCTG	STTCACA AAGACAAACT	CGAG		284

- (2) INFORMATION FOR SEQ ID NO:1256:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 691 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1256:

GAATTCGGCC	TTCATGGCCT	AGTGGGAGTT	TGCTAATGTG	AAACCTAATG	ATGTCTGAAA		60
			GAAAAATTTT				120
AATAATTTAT	ATTGTGAAGA	TATTATCCTG	ATAGTCCTTC	TTTTCCTATA	TTCTTGTCGG	•	180
CTGTAGGATG	AGAGCAGTAT	GAAGCAAACA	GAAGACATTT	TGAAATTAAT	CACAAAATTC		240
CCATTGCTTT	GAAGCCTGCT	ATTATTATAC	TAAGCCTTCT	TATAGCTTTA	AAAATCAAAC		300
AATGCCAAAC	AGTATATCTA	ACATTTTTAA	TTTCCTTTGA	GCCAAACCAA	TTTGGTTTAA		360
ATTTCTCTGC	CTCCGTGAAG	ACAAGCTGGG	CTGGGGAGGA	CGGTGTCTAG	GAGGGATGAC		420
CCCACTCAGC	TCCAGGCAGT	GTTCTGCCGA	GACCCCAAGA	ACTCGGGGTG	TCAGAGGGCA		480
AAGGAACTAC	CTGCCTTTCA	CGGCTGCTGA	CTTCTCAGGG	CTGCAAGCAG	CACAGAATGT		540
TATCCTTACG	TCCTGAGCCG	GTTTAAGTCT	GTGGAAAAGG	AAGCACGGGA	GAAATCCACG		600
TAACCTTTGC	TTTCTTTTTA	AGGGAAGCGG	TTCCGCCGTG	AACTTGGAAC	CCTCAGCTCC		660
GGGTGTTCTC	GGCAGAAGGG	CAGCTCTCGA	G				691

- (2) INFORMATION FOR SEQ ID NO:1257:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 383 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1257:

GAATTCGGCC	TTCATGGCCT	AAGCTGATCC	ACGATCAGAG	TGCTCCCAGC	TGCCCCAGCA	60
					GAGAAGGTGC	120
ATCTCACCTG	GACCAAGGAC	AAGTCGGTGG	CAGAGAAGAA	TAAGGGCCCC	AGTCCTGTCT	180
CCTCTGAGGG	CATCAAGGAC	TTCTTCAGCA	TGAAGCCCGA	CTCCCACAAC	<b>ででこれる ここれごで</b>	240

CCAACGTGCG GCGCATGCAC ACGGCCGTGC GGCTGAACGA GGTCATCGTG AAGAAATCCC GGGACGCCAA GCTTGTTTTG CTCAACATGC CTGGGCCTCC CCGCAACCGC AATGGTGATG AAAACTACAT GGAGTTTCTC GAG	300 360 383
(2) INFORMATION FOR SEQ ID NO:1258;	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 418 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1258:	
GAATTCTGAG GGACTAACTA CGACCATGAG ATTGGCAGTG ATTTGCTTTT GCCTATTTGG CATTGCCTCC TCCCTCCGG TGAAAGTGAC TGATTCTGGC AGCTCAGAGG AGAAGAAGCT TTACAGCCTG CACCCAGATC CTATAGCCAC ATGGTGGTG CCTGACCCAT CTCAGAAGCA GAATCTCCTT GCGCCACAGA ATGCTGTGTC CTCTGAAGAA AAGGATGACT TTAAGCAAGA AACTCTTCCA AGCAATTCCA ATGAAAGCCA TGACCACATG GACGACGATG ATGACGATGA TGATGACGAT GGAGACCATG CAGAGAACGA GGATTCTGTG GACTCGGATG AATCTGACGA ATCTCACCAT TCCGATGAGT CTGATGAGAC CTTCACTGCT AGTACACAAG CAGTCGAG	60 120 180 240 300 360 418
(2) INFORMATION FOR SEQ ID NO:1259:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 189 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1259:	
AAAAATTAAA TAATGCTTGA CTTTTTTTT TTTTTTCTC TTTTTGAGGC AGGTTCTTGC TCTGTCACCC AGGCTGGACT GCAACAGCAT GATCTTGGCT CACCTCCGCC TCCCAGGCTC TGGCAATCCT CCCACCTCAG CCTTCAGAGT GGCAGAGACT ACAGGCTCAT ACCACCGCAC CCACTCGAG	60 120 180 189
(2) INFORMATION FOR SEQ ID NO:1260:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 278 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1260:	
GCGATTGAAT TCTAGCCTTT CCTCCGTTCA AGTAAATTTA GAAATTTCCT AAGTTTCTT TATAACAGGT AGCCTAAATC TATATCATAC TTTTAAAATA AAAATCTAGG TGCAAATTTG TTCTTATGGT TAAGGTTAAC ATGTACACTT CACAAACATT GAGACTTTTG TTTTGTTTTC TGGGACAAGG TCTTGTTCTG TCTCCCAGCT GGAGTGGATA CAAGCATGGC TTGCTTCAGC CTCAACCTCC CGGACTCAAG CGATCCCCC CCCTCGAG	60 120 180 240 278

- (2) INFORMATION FOR SEQ ID NO:1261:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 265 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1261:

GAATTCGGCC TTCATGGCCT	ACTCACTGGA	TGCTGGGGGA	GGGCCCCTCA	GGTGAGCAGC	60
CCACCACTGA CTTCAGCGTT	GCTGGCTCGG	TTATCAGACT	CTCATCCAAC	ACAAGCTCAC	120
AGGGAAAGCC GTTCCTTGCT	CCTTGTGGAG	GGAGCTACCG	TCATTGCCCT	GAGACCACCA	180
GCCAAGAAAG TAGGTATGTC	CAGGTAGGGA	ATTCAGAGGG	ACCCAGTGCA	TCCAATTATA	240
CAATTATACC CAGAAAGTCC	TCGAG				265

- (2) INFORMATION FOR SEQ ID NO:1262:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 426 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1262:

GGTCAGTATT	GAAGGTTGTT	TTCTGAGCCA	TTGTATGAAG	CTGCTGTTTT	GGCGTCCCTA	60
ATGCAGGGTG	AGATGGTAGT	GTGATTCTTG	TTGTGACATC	TCGTGACTGG	GCAGGACGCT	120
GAATACTGAT	TGCTGCAGAT	GGAGGATGCT	GGATAGACAA	GGTTGGCCTA	CTAAGTGCTG	180
AATCAGTAGC	ATGCGCCGCT	GTCGTAGTGA	TGACTGGAGA	CTGAGCTCTG	GTGGCTGAGA	240
CAGTTGCTAC	CACAGCAGGA	GGGATGGCAT	TGGAGGTGGT	CACAGGTGGC	CGAGACTGGA	300
TTGGTTGGTG	AATGATGTGC	TGTACTGCTG	GCTGAGCAGT	AGCAGCATTT	GGCAGCTGTG	360
AGGTCGGCCT	CAGGACTGTG	GTTACTTTAG	AACTGGACAT	CACAGCAGCA	GCAGCTGCAC	420
CTCGAG						426

- (2) INFORMATION FOR SEQ ID NO:1263:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 398 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1263:

GAATTCGGCC	TTCATGGCCT	AGGCCGGTGT	TTATGCACGA	TGGCGTTGAA	AGCTAGTCCA	60
TCTCTCCAGC	TGGTGGTGAA	GTTGTGTACA	TTGACGTTGG	GATAACCTGC	AGTCTTCATC	120
TGGCACCACA	GAAGCAGGGC	ATCCTTGGCT	GACTTCTTCT	CCTTGTTGTC	TTCTGTCTCC	180
ACACTGATGT	CTTGGATCTG	GAATCGAAGG	ATGATGGTCC	AGACCAGCCC	AAGGGTCAGT	240
CGGTGGTTTC	CGTCCACAAT	GTCATGGGAG	CCCATGTTTT	CCAAGTGCAC	TTTCTGCTCC	300
TTGAGGAACT	GCAGTGCCTT	GTCCACGTTC	TCCAGGCAGT	GGATCCGCAT	GCGGCCCTTT	360
GTAGGCTTTG	GCAGTATCTC	TCCCGAGAGC	ACCTCGAG			398

(2) INFORMATION FOR S	EQ ID NO:1264:	
(A) LENG (B) TYPE (C) STR	HARACTERISTICS: GTH: 256 base pairs E: nucleic acid ANDEDNESS: double DLOGY: linear	
(ii) MOLECULE	TYPE: cDNA	
(xi) SEQUENCE I	DESCRIPTION: SEQ ID NO:1264:	
AACAGGAAGG AGAAAATTAG TGATCTTCCT CTTTGAAAAT	AAAAAAAGCT GTTAAGAAAA TATGTTTTAA AAATTTGCCC AATCTAATAG CAAACTTGTG TCAAAGCAGG GGAGACCACA CTGTCCTGGG TGATGACCAT ATGCTCTCTA AACAGGTTTT CTCAGAAAGG ACCCCTGCTC TTTGATGACC TCCCTCCGGC	120 180
(2) INFORMATION FOR S	EQ ID NO:1265:	
(A) LENG (B) TYPE (C) STRA	HARACTERISTICS: FTH: 249 base pairs : nucleic acid LNDEDNESS: double DLOGY: linear	
(ii) MOLECULE 1	TYPE: cDNA	
(xi) SEQUENCE I	DESCRIPTION: SEQ ID NO:1265:	
ATTTTGGCTA CAGTCCTACC AGGCTAGAGT GCAGTGGTGC	ACAGAGTCTA ATTAGCCATA TTTATATGAT AATAATAAAC TAGATTTTT TTTTTTAGAT GGAGTCTTGC TCTGTCGCCC GATCTTGGCT CACTGCAACT TCTGCCTCCC AGGTTCAAGC CCAAGTAGCT GGGATTACAA GCGCACATGA CCACGCCTGG	120 180
(2) INFORMATION FOR S	EQ ID NO:1266:	
(A) LENG (B) TYPE (C) STRA	HARACTERISTICS: ETH: 265 base pairs E: nucleic acid NDEDNESS: double NDOGY: linear	
(ii) MOLECULE T	TYPE: cDNA	
(xi) SEQUENCE I	DESCRIPTION: SEQ ID NO:1266:	
	AGGTTATATA GCAGTGATGC TTTCATAGTA TTTTTCTTGA TTAAGTTCCT GGTAGGCATG GAGCATTGAA GATGGCAGAC	

- ATGGTGCAGT CTCTCAAGGA GTTTACGCTC TAGTGGAGAA AACAATCAGA CAGCCTTAAA
- ATACATGTAT GGCTACTATA ATAAATACTG TGAAGCAGGA GTGCACCACG AAACCTGGAG TCCTCTCCAT CCTCCCCTTC TCGAG
- (2) INFORMATION FOR SEQ ID NO:1267:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 293 base pairs
    - (B) TYPE: nucleic acid

180

240

265

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: CDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267:

GAATTCGGCC TTCATGGCCT	ACTAGACCTG	CCTCGAGATT	AGGGGGGTTA	GACTCAGAAT	60
TCTGTCCAAA CTCCTGGACG	ACCTCTTGAA	ATTAAGTCAG	GGATTTTATG	TACTGGGTTA	120
ATTTCGTAAC CTCTGGGTAT	AATATTAGGT	TTGCATGTAG	AAAGGGTCTC	CAGTATAGGA	180
CTTCAAAGAA ACTAAGCCAT	AGACGTAATT	TAAGGGCTGT	TCTGATCTGA	AGAAGTGCCA	240
TGGGTAGAAG TTTTAGCCAT	GGTAAAGAGG	CTTCCTGGCA	TCATTTGCTC	GAG	293

- (2) INFORMATION FOR SEQ ID NO:1268:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 501 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268:

GAATTCGGCC TCATGGCCTA	CTGGTCCAAG	CTGATTACCC	TCATAGTGTC	CATCATTGAG	60
GAAGACAAGA ATTCCTACAC	TCCCTGCCTC	AACCAGTTTC	CCCAGGAGCT	GAATGTGGGT	120
AAAATCAGCG CTGAAGTGAT	GTGGAATCTG	TTTGCCCAAG	ACATGAAGTA	CGCCATGGAG	180
GAGCACGACA AGCATCGTCT	ATGCAAGAGT	GCCGACTACA	TGAACCTCCA	CTTCAAGGTG	240
AAATGGCTCT ACAATGAGTA	TGTGACGGAA	CTTCCCGCCT	TCAAGGACCG	CGTGCCTGAG	300
TACCCTGCAT GGTTTGAACC	CTTCGTCATC	CAGTGGCTGG	ATGAGAATGA	GGAGGTGTCC	360
CGGGATTTCC TGCACGGTGC	CCTGGAGCGA	GACAAGAAGG	ATGGGTTCCA	GCAGACCTCA	420
GAGCATGCCC TATTCTCCTG	CTCCGTGGTG	GATGTCTTCT	CCCAACTCAA	CCAGAGCTTT	480
GAAATCATCA AGAAACTCGA	G				501

- (2) INFORMATION FOR SEQ ID NO:1269:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 330 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269:

GAATTCGGCC	TTCATGGCCT	AGGCCCCTGC	TCCACCTGGG	GGGACTGGGA	GTGTGAGTGT	60
GCATGGCATG	TGTGTGGCAC	AGATGGCTGG	GACGGGTGAC	AGTGTGAGTG	CATGTGTGCA	120
TGCATGTGTG	TATGTGTGTG	TGTGTGTGGC	ATGCGCTGAC	AAATGTGTCC	TTGATCCACA	180
CTGCTCCTGG	CAGAGTGAGT	AACCCAAAGG	CCCCTTCGGC	CTCCTTGTAG	CTGTTTTCTT	240
TCCTTTTGTT	GTTGGTTTTA	AAATACATTC	ACACACAAAT	ACAAATTGAC	AGGTCAAAAT	300
CCATGAAATG	AGATCCCCCA	GCGGCTCGAG				330

- (2) INFORMATION FOR SEQ ID NO:1270:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 502 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270:

GAATTCGGCC	TTCATGGCCT	ААААААААА	TACTGATTCA	CTTTTGCAAT	TTTTCAGATA	60
CTACTTGATG	TGACACCTCC	CCTAGGCTTG	CTGTGGGTCT	CTTGGAAGAT	AGAGCTATAT	120
TAACTCCTTG	ACTTAAAGGG	CAGCAGACTA	TATAAGGTCT	CTTTACAGAC	AGAGTAGGGA	180
GAATAATGAA	AAACTTTTTG	ATTTCTAGAG	AGAAGAGAGA	AGACATAGCA	ATGGAACTGT	240
TCTTAGCTTT	GTTTGCTACA	ACTCTTCAAA	GTTTAATTTT	AGATTCAGTG	CATTTATTCA	300
TAGAGCATGA	AACATATAAT	CATGCCTTTT	ACTAATTGCG	GATACTTAAA	TTATATATTA	360
TTTGACCTAC	TGTGTTATGG	TCAATTTGAA	AAAGAATGGT	TTGATTATAT	ATTATTGTCT	420
GTAGATTCCC	TGTACTATTC	TAGGATCATA	TGACATATTA	TCATTACTAA	ATATAGCACT	480
AATTATTGAT	GCTCCGCTCG	AG				502

- (2) INFORMATION FOR SEQ ID NO:1271:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 285 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271:

GAATTCGGCC	TTCATGGCCT	ACCCCTGACT	ATTCAGTAGG	AGAAGAAATC	AAAAATCCAT	60
TCTTTTCTCC	TTCTCTCCCT	CCAACAGTGG	CCAGGGGAAG	GGGAAGTGAG	GGCAGGGGCA	120
AAAAGATTTG	GGAATTTTTA	TTTATTTATT	TATTGTGACT	TTTCATTTTT	TTGGTATTTG	180
GCTTTACTGG	AATAGGAGGG	CCCCTGCCCA	CTGTGCCCCG	TTTATCCCTT	ATTCCCCAAA	240
CCCTGCTCTC	CCCAACACCT	ACTCACTTAA	GCACTTGTCC	TCGAG		285

- (2) INFORMATION FOR SEQ ID NO:1272:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 405 base pairs
      (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272:

GAATTCTAGA	CCTGCCTCCA	ATTTGAAGAT	TTATTTCTCT	CTTTGGATAT	AGAACAAAAT	60
AACTTTATGT	ACATTTTATT	TCACTTTATT	TTACTATTGG	GTTGGTGCAA	AACAAATTGC	120
AGTTTTCCCA	TGAAAAGTAA	TGGCAAAAAC	TGCAATTACT	TTCGCACCAG	CCCAATATTT	180
TATTTTGAGA	CAGAGTCGCA	CTCTGTCACC	AAGGCTGGAG	TGCAGTGGTG	TCATCCCAAC	240
TCACTACAGC	CTCTGCCTCC	TGGGTTGGAG	AGATTCTTGT	GCGTCAGCTT	CATGTGTAAC	300
TGGAATTACA	GGTGCACGCC	ACCACGCCCA	GCTAATTTTT	GTATTTTTTG	TAGAGATGGG	360
GTTTCGCCAT	GTTGCCCTGG	CTGTTCTCAA	ACTCCTGACC	TCGAG		405

- (2) INFORMATION FOR SEQ ID NO:1273:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 412 base pairs

- (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273:

GCGATTGAAT	TCTAGACCTG	GCTCGAGGCA	GGTCTAGAAT	TCAATCGGCT	TCCTGGCAGT	60
					TTGAGACAGA	120
GTTTTGCTCT						180
GGTGACAGAG						240
					TATTGGATGT	300
ATTAGAAGGG	GCATGGGGAA	TGTGGGGTCA	AGGTTATAGT	TTTAAATAGG	GTGGTCAGGG	360
AAAGCTTTCT	GAGAAGGTGA	CATTTGAAAC	AAATACTTGA	AGGAGTCTCG	AG	412

- (2) INFORMATION FOR SEQ ID NO:1274:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 285 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274:

GAATTCGGCC	TTCATGGCCT	AGCTATTTTT	AAACAATATC	TGAGATTATT	CATTCAACTA	60
AAACTTATTA	AGCATTTAAT	ATCTGTCTGG	CATTCTTCAG	GCACCAAGGA	TATTTCGTTG	120
AACAAAACAA	AATCTTTGTC	ACTATGGAGT	TTACGTTTTG	TGGTGGCATT	GGAGTGAAGA	180
GCTAGGGAAT	AAAAAAACAA	GTCAATATGT	AGTATGCCAC	TTGGTGGTAA	GTCATTTGGA	240
GAATGATGTA	GTAGGGAAAG	AGGAAAAGGG	TGTAGGCATC	TCGAG		285

- (2) INFORMATION FOR SEQ ID NO:1275:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 280 base pairs (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275:

GAATTCGGCC	TTCATGGCCT	ACTCCACACA	TTCATCTCCC	AAAGGACTCC	TTGAATATTT	60
GCCCCAAAAC	ATCAGCTCCC	AGAAAACACC	CCTCCCAGTC	ACACACACAC	CCAAATTCTC	120
CGATGTATTT	TCATTTTTT	TCTCCTCTTC	TCTTCTCTTT	TTCCTTCCTT	CCTTCTCTCT	180
TTTCTCTCTT	TCCATCCCTC	CCTTCCTTCC	TCCCTCCCTT	CCTTCCTCCC	TCCCTTCCTT	240
CCTCCCTCCC	TCCTTTCCTT	CCTCCCCCA	CCCACTCGAG			280

- (2) INFORMATION FOR SEQ ID NO:1276:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 220 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276:

GAATTCGGCC	TTCATGGCCT	ACGAGTGGTG	CGATTTTTTT	TTCTTAGCTT	ATCAGCTATG	60
GTTAGTGTTA	GCGTATTTTA	TGTGCGGCCC	AAGACAATTC	TTCCTCTTCC	AGTGTGGCCC	120
AGGAAAGCCA	AAAGATTGGA	CACCCCTGGT	AGAGGCAGAA	ACTCACTGGG	TTAGTTCCAC	180
AGCATCTGAT	CAAAGATATG	AGGCCAAAGA	GCCTCTCGAG			220

- (2) INFORMATION FOR SEQ ID NO:1277:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 246 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277:

GAATTCGGCC	TTCATGGCCT	ACGAGCTGAG	ATTGCGCCAC	TGCACTCCAG	CCTAGGCAAT	60
AGAGTAAGAC	TCCATTTCAA	ааааааааа	AAATGTTGAT	CAAAAGAAGC	CAGATGACAG	120
AGTACTCACT	GTGTGAGTCC	ATTTATTTGA	AATTCTAGAA	CAAAAAATAA	ATATCCATTG	180
ATAGAAATGG	GAACAGTGTT	GGCCTATGAA	GAATGGAAAT	TGACTGGAAG	GAGGCCTCTG	240
CTCGAG						246

- (2) INFORMATION FOR SEQ ID NO:1278:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 499 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278:

GAATTCGGCC TTCATGGCCT	AGCTGGGCGT	GATGGCGGGC	GCCTGTAGTC	CCAGCCACTC	60
GGGAGGCTGA GGCAGGAGAA	TGGCGTGAAC	CCGGGAGGCG	GAGCTTGCAG	TGAGCCAAGA	120
TTGCGCCACT GCACTCCCGC	CTGGGCCACA	GAGAGAGACT	CCATCTCNAA	ААААААААА	180
GAAAGAAAAA AAGAAAATAA	ACAAAGAAAA	AATTAAGATT	TTTGAAATAA	AAACAAATAT	240
TAAAAATTAT TGAAATATAT	TGAAAGTTTT	TTCACCATAT	ATATTTACCT	TTTAAAAGGA	300
TATGAATTCA ATTATTTTAT	TTGCTTATGG	AAAATAGATC	CACTGCTCTA	AGATGCTACT	360
AATCATGCTC AGAGGATTCA	CAACAAACAG	ACTGATAAGG	TATTACTTAA	AGCGCTCTAC	420
ATTAAATAGA GCATTCCAGT	TTTCTAGGGC	ACACTACTTG	CTGTATTTCC	AAGGTCAAGC	480
AAAATAGCTT TCGTTCGAG					499

- (2) INFORMATION FOR SEQ ID NO:1279:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 317 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279:

GAATTCGGCC	TTCATGGCCT	AATGAGCTAA	AAGCAGTGTC	ATCTCCGCAT	GTTGGAGCAG	60
CCAAGAAATA	GTTTGGTACT	ACCGACATTG	TCTAATCCAT	GTCACATCCT	CATACAATTT	120
AATTGCTCAA	CCATGCATTT	AAAACTCCTC	AAGAAAGGAT	TGGTACTGCA	ACTGTAGGTA	180
AACTGAAAAA	AAATAAGAAA	GAAAGAGTTG	GATGAAAATG	TGAAAGCCCA	AGTTTAGATG	240
TGCATTAAGT	ATTAAATAGC	ACAGTATCTT	CTTCATGGAG	CCTTTTTTCC	TCCCCCATCC	300
CCTGCAGCTA	CCTCGAG					317

- (2) INFORMATION FOR SEQ ID NO:1280:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 407 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280:

GAATTCGGCC	TTCATGGCCT	ACTTCCTTTC	ATTTTGAAGC	AACAGTTTAT	AAACAGGAAA	60
GTCTACTGGT	TTCATAGAAT	CTGTCAGATT	TGCTTATTTG	CTACTGGTTT	CACGCGCGTG	120
GACTATATTC	CAGTGTTTCT	AGTCAAAGAC	CTTTATCCTC	AAATCATGAG	ATTAGAGTAA	180
AACAACTGCT	GTAAGGTTGA	GCATTTCATG	ACCAATGACT	ATGAAGGCAC	ATTCACCAAA	240
CACAGGCACT	TTAAGGGCAT	CCTTGATTAA	TTTGCTAATT	GCTATTTTT	GTTGGTATGT	300
GAATTCCTGC	TAGGAGGCCG	AGGCTAGTAG	GCAATGAAAA	AGACAGAACA	ATGGTAAAAT	360
GCAGCCCCGG	TCCTCTACAA	ATTGACAGTA	TAATTTAGGG	GCTCGAG		407

- (2) INFORMATION FOR SEQ ID NO:1281:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 281 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281:

GAATTCGGCC	TTCATGGCCT	AAGATTGACA	AAGAAATAGA	GCTTCACAGA	ATTCTTCATC	60
ATAAGCATGT	AGTGCAGTTT	TACCACTACT	TCGAGGACAA	AGAAAACATT	TACATTCTCT	120
TGGAATACTG	CAGTAGAAGG	TCAATGGCTC	ATATTTTGAA	AGCAAGAAAG	GTGTTGACAG	180
AGCCAGAAGT	TCGATACTAC	CTCAGGCAGA	TTGTGTCTGG	ACTGAAATAC	CTTCATGAAC	240
AAGAAATCTT	GCACAGAGAT	CTCAAACTAG	GGAACCTCGA	G		281

- (2) INFORMATION FOR SEQ ID NO:1282:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 250 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282:

	•	
TGTGCCCTTT TATATGCACC	TTCATGGCCT AGTAGTTTAT TATATAGAAA TTATTTGTCC TTGTCTTAGACTCAGCAA TTCCCCTTCT ATAAAATTTT CCCAAGCAGA TGATTATCAATTTGGAAA CAGGGATGTT TATTGTTTAT AGTAGCACTC AACTGAAAATCTCAAGGAG CGGGGACTGA TTAAATTATG ACATGAAGCA GAATAATC	GGA 120 AAC 180
(2) INFORMA	ATION FOR SEQ ID NO:1283:	
(i) :	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 257 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1283:	
TGACACTCAA AAAGCATGCA TGAAGGTGTA AGAGAAGCAG	TTCATGGCCT AGCTGAAGAA GGCCTTCACA GAGCTTCAAG CCAAAGTT CAGAAGGTGA AGCTCGCAGA CATACAGATT GAACAGCTAA ACAGAACC CATCTTACAG ATACAGAGAT CATGACTTTG GTAGATGAGA CTAACATC GGAAGAATGT TTATTCTTCA GTCCAAGGAA GCAATTCACA GTCAGCTC TCTCGAG	GAA 120 GTA 180
(2) INFORMA	ATTON FOR SEQ ID NO.1204:	
(i) :	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 434 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: CDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1284:	
TAATTTGCAT GAAAGGTATT CCTTTATCAA TAGTTAATTA GCTACAAAAC	TTCATGGCCT AAAGACTAGC ATATTTATCT TTGACTTGAT TAATCAGA TCGCAAATGA GACTGATAAA AATGGATTTA CCTTTTAACC TTTAGAGC TCTCTGCAAG ATTTCTGGG CTATCGTTTC TTAACCGATA AGAAGCCA TAAAGATGAA AATCCGCAAT TTGCATTAGT GAATGGGACT GATTATTA GCATCTGGAA ATGAGGATTA TCTTAATTAC AAAGCACAAT TTCCCTAA TGTAAGTTTG ATCCATGTGG AAATTGGTAA CATTATTATG TAATTAGC AGTGTAGAAT ATTTAGATGT AATTTGCATA TGCAAATGTG ATTTACCC CGAG	ACT 180 ATA 240 ATA 300 IGA 360
(2) INFORMA	ATION FOR SEQ ID NO:1285:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 302 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1285:	
	ATTTTAGACA GACTTCTGCG TTATGACCCG GCTGCTGGGC TACGTGG CAGCTTTGTG GCTGCCGTCA TCACCATCAC CTTCAATCCG CTCTACTC	

ATGTGGTTGC ACGATGGGAA CACAAGACCC GCAAGCTGAG CAGGGCCTTC GGATCCCCCT ACCTGGCCTG CTACTCTCA AGCATCACCA TCCTGCTCCT GAACTTCCTG CGCTCGCACT GCTTCACGCA GGCCATGCTG AGCCAGCCCA GGATGGAGAG CCTGGACACC CCCGCACTCG AG	180 240 300 302
(2) INFORMATION FOR SEQ ID NO:1286:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 245 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286:	
TGTTTTTTGA GACGGAGTCT CACTCTGTTG CCCAGGCTGG AGTGCAGTGG CGTGATCTTG	60 120 180 240 245
(2) INFORMATION FOR SEQ ID NO:1287:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 232 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:	
GAATTCGGCC TTCATGGCCT AATTTTTTT CTCCTCTTTC TTCTAGTACA TATTGATAGG TATAACATAA TTAAGGTTTA AAAAAAATTA GACATAGTTA TTCAGATTTA GGACCAGTAA GGATAGAACT TTCTCTTATT TATGAAAAAA AATGCTAATA ATTTTGGGCC AGTTTTAATTATT TTTTCAATT TCAAGTTTAA TTTTATTTTA	60 120 180 232
(2) INFORMATION FOR SEQ ID NO:1288:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 298 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1288:	
GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCCGCCT TCATGGCCTA AGAAGATCAC TTGAATCTGA GAGGTAGAGG CTGCAGTGAG CGAAGATCAC ACCACTGGAC TCCAGCCTGG GCAACAGAGT GAGACCCTGT CTCAAAAACA AAGAAGAGCA CTAGCTTCTC TATCAAGTAA GTGTAGGGTT TTAAAAAACA CAAATGGACT TTGGTAGACC AAAACAAAAG CCCACGAGTA TGGAAGTTTC CCTTGAAGTT GGAAATTCAA TTTCCCCCTT ACCCCCCCAA CCCTCGAG  (2) INFORMATION FOR SEQ ID NO:1289:	60 120 180 240 298

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 227 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1289:	
GCGATTGAAT TCTAGACCTG CCTCGAGCCA TACCCATGGT CAGCCTCTTC CTCGTGTTCA CGGCCTTCGT CATCAGCAAC ATCGGCCACA TCCGCCCGCA GAGGACCATT CTGGCTTTTG TCTCTGGCAT CTTCTTCATA CTATCGGGCC TCTCCTTGGT GGTGGGCTTG GTTCTTTACA TCTCCAGCAT CAACGACGAG GTCATGAACA GCCCCAAACA GCTCGAG	60 120 180 227
(2) INFORMATION FOR SEQ ID NO:1290:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 264 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1290:	
GAATTCGGCC TTCATGGCCT AGACAACTCT TAGCTAAATG TGGTTTGGTT	60 120 180 240 264
(2) INFORMATION FOR SEQ ID NO:1291:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 323 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1291:	
GAATTCGGCC TTCATGGCCT AGGTGCTCTC AAGGATCAGT ACTGGGTAAC AATAATCAAA CTTTGAATTT AAACATGCAT CTATTATTTG TGTTTTTTG TTTTTGTTTTTT GAGGCAAAGT CTCACTCTGT CACCCAGGCT GGAGTGAAGC AGCCCAATCT TGGCTTACTG CAACCTCCAC CCCCTGGGTT CAAGCAATTC TCCTGCCTCA GTCTACCTAG TGGCTGGGAT TACAGGCGCC CGCCACCACG CCCAGGTAAT TTTTGTGTTT TAGTAGAGAT GGGGTTTCAC CATGTTGGCC AGGCTGGTCT AGAATTCAAT CGG	60 120 180 240 300 323
(2) INFORMATION FOR SEQ ID NO:1292:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 289 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292:

GCTCGAGAAA	CTTCTGCTGC	ACGTGCGTCT	TCCCCTCCAC	CTTCACCCCT	TGTGGCTCAC	60
TCACGCACCC	ACTCTCCAGT	CCACCCCTCC	TCAGAGACCC	TGTCCACTCA	TCCATCTCTC	120
TCCCATTGCG	CTTCCTCTTC	ACTCCGTTCC	TTCTGCCTCC	CACCATATGC	AAATCTTCTC	180
CATCCTTAAA	AGCCTGATTG	CCTCCTCTGG	ATTTTTCCAC	ACTCTTGGGG	AACTTCCTGT	240
GACTCCCTGC	CCTTCACCAC	CAGCCTTTCC	CAAAGAGAAA	TCCCTCTCA		289

- (2) INFORMATION FOR SEQ ID NO:1293:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 421 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293:

GAATTCGGCC	TTCATGGCCT	AGTTGAAATC	TTTAGGAATG	AACTTCTGAG	GGCCAAAAAA	60
TGTGACTGAC	GGGAACAATT	CTTAAACTGA	TTAACTAGCT	GTAATATAGT	TTTGTGAATT	120
TATTGCACTG	ATGTTGTACC	TTGTGGTATA	TCTGTCCCTA	TTAAATAAGT	GTTGTTTTCT	180
CCTCTTTAAT	ATTGCTGTGA	ACAGTGGTGC	CCATTGTAGC	ATATGTTTGA	ATTTTTTTTT	240
TTATTTCATA	AGAAAACTAC	GTTAATTTTA	CCTTACTTTC	ATTGTAAATA	AGCCTGTCTT	300
CCTATCTGGA	TTTTTTGTGT	GCATACATAT	TCTACTGATT	AACTACTTTT	GCAGTTTTAA	360
TCCTGTATTA	TTTCTTCTAC	TTTGTTTTGT	GTAAAAGGGG	AAAAAATAAA	AAAAGCTCGA	420
G						421

- (2) INFORMATION FOR SEQ ID NO:1294:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 408 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294:

GAATTCGGCC	TTCATGGCCT	ACAGGTGTAT	GTCACCATGC	CTGGCTAATT	TTGTTTTTCT	60
TTTCTTTTTT	TTTTTTTCCT	AGAGACAGGG	TCTCACTATG	TTGTCTGTCC	TGGCTGGTCT	120
CAAACTCCTG	GGCTCCATCT	TCCCGCTTCG	GCTTCCTGAA	GTGCTGGGAT	TACAATAGGC	180
ATGAGCCACT	ATGCCCATCC	TAAAGTTTTA	CAGCCCAATA	ATAGTAATAT	TCCATCACTA	240
CAGCTATCAT	TGAGTTTCAG	AAGTTAGACT	GTTAAAAGTT	TCAGTAAAGA	GCTTTAACCA	300
GTTTATTGTG	GCAATACTGT	GTACACAATT	ATTTTTTGTA	AAAGGAAGGA	GATTTCTGTC	360
TTAAATAGCT	TTAATAAAGT	TTCAGTTTCA	TATACAGGAA	ACCTCGAG		408

- (2) INFORMATION FOR SEQ ID NO:1295:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 259 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295:

GAATTCGGCC	TTCATGGCCT	ACAGGCACTC	CAGTTATAAT	TATGTGCCTT	TCTTCCATTT	60
CTACCACTTT	CTCTGATACT	TCTCACTTCT	TTCTCTGGTA	CTTCTCACTT	CTTTCTCTGG	120
TATCATTTTC	ATTCTTCATC	ATTGTTTTAG	TGCCTTTACT	TCAATTCCTT	CATTATTTGA	180
ATTTTTCTTT	TTATCATCTT	GTGATTCAGT	TTTTATTTAT	TTTTTGATAG	TATTCTCCTT	240
TTCTTCCATT	CCACTCGAG					259

- (2) INFORMATION FOR SEQ ID NO:1296:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 257 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296:

GAATTCGGCC	TTCATGGCCT	AGTGGAGAGT	GCTATCATTA	ACACCTGAAC	TCTGGGCCAG	60
CTTAAGTGTA	TATTCTGTAA	AAAATTTGAA	ATCCCCCAAA	TGTCACATGC	TATGACAGTC	120
ACTTTCTTTA	GTACTTTGTA	ATCATACAAA	ATGGTGTATG	GGCTAAATAT	TGCAGCACCT	180
ATGTCGTCAT	CCTCCATGTT	GCTTATTGAT	CATGGAATGT	TAATTTAGCA	ATAATTTTCT	240
CTGTGTGTGC	GCTCGAG					257

- (2) INFORMATION FOR SEQ ID NO:1297:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 327 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1297:

GAATTCGGCC	TTCATGCAAG	TAGGGTATGT	AGGCTTCAGT	TGGTTCTACT	TTCAGAGAGT	60
TAAGATGGAA	TGAGGCAGCT	CATGGCACTA	CAGGTCAGTT	GCCTTCTCTC	CAAAATGTTC	120
ACTCATGCAT	GTGGGCACTC	ATTGTATTTG	AATAACAGCA	ACAGTGCCTC	CCTCAGTTTG	180
GAACCTCTAG	TCCACTTGCT	CACTCATGGT	CCCTGCCTTA	ACCCCAGTCA	AGTTCAAAGC	240
CATAGGCATC	ATTTGTCCGA	CTGACATATT	AGGGCATCTA	CCAGTCAAAG	GGTGATTGTT	300
GTAGATGACC	TTTGGCCCGT	TCTCGAG				327

- (2) INFORMATION FOR SEQ ID NO:1298:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 286 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1298:

GAATTCGGCC TTCATGGCCT ACACTCTCAT GTTTGTTGCA GCATTATTCA CAATAGCCAA GGTATGGAGT CAACCTGAAT GTCGAACACA TGAATGGATA AAGAAAATGT TCACACACAC AATGAAATGT GATTTAGCCT TTAAAAAGAA GGAAATCCTG CCATTTGGAA CAACATGGAT GAACCTGGAG GGCATTGTGC TAAGTGAAAT AAACCAGACA CAGAAAGACA AACACTGCAT GACCTCACTT ACTGTGGAAC CCCTCGAATT CTGGATCTCC CTCGAG	120 180
(2) INFORMATION FOR SEQ ID NO:1299:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 285 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1299:	
GAATTCGGCC TTCATGGCCT AATGAATTTA GTATTATTTC TATCATTTCA ATTGCAAATT	60
GTCAGTATCC CCTGCTACGT TTCTACTAAT TTACCATCGC TTCTTCAAAA AATTGTGTTC	120
AGAGTGCTAC AATTTCAGAC TTTGAAATGA ATCACTATAA CTTTTAAAAA TTAGAGATTT	180
TAAAAACTGG AGATTGAATA TATATAAAAA ATACAAAATT TGACATTTAA AACCTCATTG	240
AACTTTTAAA AAAGCCAGAC TCATATTAAG GCACACACCC TCGAG	285
(2) INFORMATION FOR SEQ ID NO:1300:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 292 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1300:

GAATTCGGCC	TTCATGGCCT	AGGGCCAATG	GCCAGGATCT	CTGGGGACTA	GAAGGGTGGA	60
TTCCTGAACC	TGGGTAACAA	CGAGACAAAC	TCTAGCAATC	TGAGCAAGGG	AAGGGTCATC	120
AAAGTCCCAA	AATCTAGCCC	ACTAGCTGCC	TAGCCAGGTA	AACCAAGGCT	TAGGGAGTTT	180
AGACCCTTTC	ACATAAAGAA	GCTTAATAAA	AAGTGTTGGG	TGAAGAGATA	AACACATGAA	240
GGGGTTGGCT	AAAGTCAAAA	GAAGATCCGA	GGCAGGTCTA	GAATTCAATC	GG	292

- (2) INFORMATION FOR SEQ ID NO:1301:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 548 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1301:

GAATTCGGCC	TTCATGGCCT	ACTCCTCATT	TGCCACCACC	AGGCCAGTTT	GTCCCTTTCC	60
AAACACAGCA	ATCACGATCG	CCTCTGCAAA	GGATAGAAAA	TGAAGTGGAA	CTCTTAGGAG	120
AACATCTTCC	AGTAGGAGGT	TTTACTTACC	CTCCATCAGC	CCACCCCCCA	ACATTACCTC	180
CATCAGCTCC	CTTGCAGTTC	TTAACACATG	ATCCTTTGCA	TCAGGAGGTG	TCCTTTGGAG	240
TACCTTATCC	TCCATTTATG	CCTCGGAGGC	TTACAGGATA	GTAGATACCG	ATCCCAGCAG	300

CCAATACCAC CTCCCCCTTA TCATCCCAGC TTACTGCCAT ATGTGTTATC AATGCTTGCCACCTG CAGTGGGCCC AACTTTCAGC TTTGAATTAG ATGTAGAAGA TGGAGAAGGAAAATTACG AGGCCCTGTT AAACCTGGCA GAGCGACTGG GAGAGGCAAA GCCTCGCCTGACTAAAG CAGATATTGA ACAACTTCCT TCTTATCGGT TCAATCCTAA CAACCACCTCCTCGAG	AGTA 420 FGGA 480
(2) INFORMATION FOR SEQ ID NO:1302: .	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 384 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1302:	
GAATTCGGCC TTCATGGCCT AGTATCTATC TAGTGCCTGT TTGTGCGTTT TTTTCTTTCCGCGTGCTT CCCCATTTTC CTTCTTCTCTG CTCCTTGGTTT TCCCAGC CCGCGCGCTCGGAGCA GCAGAGGTGG CCGCCGCGGG GGGGCCCAACT CCAGGCCC CCTTCCATC CTCTCATC CTCCAGCAC ACCCAGCAC ACCCACAC ACCACAC ACCCACAC ACCCACAC ACCCACAC ACCCACAC ACCCACAC ACCACAC ACCACAC ACCCACAC ACCACAC ACCACAC ACCACAC ACCACAC ACCACAC ACCACAC ACCACACAC ACCACAC ACCACAC ACCACAC ACCACAC ACCACAC ACCACAC ACCACACAC ACCACACACACA	CAGC 120 GGTG 180 GTTT 240 GGGC 300
(2) INFORMATION FOR SEQ ID NO:1303:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 140 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	•
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1303:	
GAATTCGGCC AAAGAGGCCT AGGGTACGTG AATCTATTTT TTCAGCTGGA AATTTTA AATCTGGTGT GTATTTTATA CTTATAGCAT ATCTCGAGGC AGGTCTAAAT TCAATTC ACCTGCCTCA AGAGCTCGAG	
(2) INFORMATION FOR SEQ ID NO:1304:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 620 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1304:	
GAATTCGGCC AAAGAGGCCT AAATAAGTTT ACTTTTATTT TTGGTAACAC TTTACTC TGTCTGAATA TTGACAATCA GTATGCATTA TGAAGCTACC TGGCTAACAT TGTGTAC CTGTGTGTGC CAGGCCCTGG GTTCAATGCT CTACATGCAC TTATATTTCA TTTAATT TCTGCAACCT GAGATGGTAT AGCCACCTCA TTTTACAGAG TTGAAACTGA GGCTCAC CTGAAAGTTA AGCCTGAGGT TGCAGTCAAT AAGAGGCAGA GCTGGAACTG AAACCTI	CTCA 120 CCTC 180 GAGA 240

GTGTCTGACC	ACCAGTTCGT	GTTCTGACGG	CAGGCTAGTC	TGCATCACAG	AGTGTGGAGT	360
AGATGGTGCA	TGCCTGCTAG	GATGGGCTAG	GTATCACTGT	AGGTAAGAAA	CAGCCCCAAA	420
CTATGGAAAT	GTACACCACC	GAAGGCTCTT	TTCCTGCCCA	TGCTGCACAT	CCTCCATGGC	480
TCTCCTGTGC	CCTGTGCCCC	ACATGCCCTC	ATCCTGCCAC	GAGAATAAAG	GAGCAGCCTC	540
CATATGGGAG	CTGTCAGCTG	CTCTAAGAGA	TGAAGGAGAG	AGTGGCCCGT	CTCAATGGCT	600
CCCAACTCTT	CTGCCTCGAG					620

- (2) INFORMATION FOR SEQ ID NO:1305:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 736 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305:

${\tt GAATTCGGCC}$	AAAGAGGCCT	ACTTTTGGCT	CAATGTTTTC	CAAACTTATT	TGACCCCAAA		60
ACCTTTTTCA	TATACCCAAT	AATAAGCTAC	AGAACTAATA	TTCTGCAAAT	GTCTCTTGGA	•	120
ACACACTGCC	TTAAACAGAT	ATTTCTATAG	CTGTCAGTAT	AGTTATGTTG	CTCCCAAGCC		180
TAGTTATCTC	CAGTTGTTTT	AAGGGTGTTA	TGAAAAATTC	TTAAAATATA	TATGAATTTG		240
TGTAACACAC	ACAGAGACAC	ACACACATAC	TACTTTAAGG	GGGTGAGGAT	CATTAATTCA		300
GATAATTTTT	AAGTTTCCTA	GTGATTCTCA	ATCTCTTTGA	ATTTTACTTA	CATTTACACA		360
CACACGCACA	CACATATGTA	TATACACATA	TCATTTTAAG	AAGCTGAGGA	TCACTAATTC		420
AGATAATGTA	TAAGTTTCCC	AGTGATTCTC	AACCTCTTTG	AATTTTACTT	ATAATTACAT		480
ACACACACAC	ACTGCTACTT	ATATAAATGT	TCTCATGTAA	TCATGGTAAC	AGCTCAAATT		540
CCCAAAGCAA	GGGAAGACTT	CTCATTGTCA	GTTAAACCTG	TTAAAACATG	AAAATATTCA		600
TTGAGCCTAG	TTCCTTGTTA	TAAAATACAA	GAAATAAGAC	ATTCAGGCAT	TTTCCCTTTA		660
TGAAGATGTT	CAGTCATCCT	TTCCTTGAAC	TACAATTAGG	AAAAGTATAT	GTCTTTATTC		720
CATTGAAGTT	CTCGAG						736

- (2) INFORMATION FOR SEQ ID NO:1306:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 511 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306:

GAATTCGGCC AAAGAGGCC	ACAGCAATAT	GCATCTTGCA	CGTCTGGTCG	GCTCCTGCTC	60
CCTCCTTCTG CTACTGGGGG	CCCTGTCTGG	ATGGGCGGCC	AGCGATGACC	CCATTGAGAA	120
GGTCATTGAA GGGATCAAC	GAGGGCTGAG	CAATGCAGAG	AGAGAGGTGG	GCAAGGCCCT	180
GGATGGCATC AACAGTGGA	TCACGCATGC	CGGAAGGGAA	GTGGAGAAGG	TTTTCAACGG	240
ACTTAGCAAC ATGGGGAGC	ACACCGGCAA	GGAGTTGGAC	AAAGGCGTCC	AGGGGCTCAA	300
CCACGCATG GACAAGGTT	CCCATGAGAT	CAACCATGGT	ATTGGACAAG	CAGGAAAGGA	360
AGCAGAGAAG CTTGGCCATC	GGGTCAACAA	CGCTGCTGGA	CAGGTTGGGA	AGGAGGCAGA	420
CAAACTGATC CATCATGGG	TCCATCACGG	GGCCAACCAG	GCGGGAAGTG	AGGCAGGGAA	480
GTTTGGCCAG GGAGTCGAC	ATGCACTCGA	G			511

- (2) INFORMATION FOR SEQ ID NO:1307:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 219 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307:

GA	ATTCGGCC	AAAGAGGCCT	AATTTTTCCC	CACACCACAC	CACTGTCCTC	TGTGCCTGTG	60
GAZ	ACCACTC	AAATGCCTCT	CCCCAAGCCT	TCTTTCAGTA	ACAACCATCT	CATCCGGTTG	120
AT'	PACTGTAG	CTTTCGGCCT	GTATAACCCC	TCCTTATGTC	ATGCCTGTAC	CAGATGTTCC	180
AC'	<b>FGCATCTG</b>	TATCCCACCA	GATTGCACAT	ACTCTCGAG			219

- (2) INFORMATION FOR SEQ ID NO:1308:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 344 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308:

GCACTGCGCC	TGGCCCTTGT	GGATACTTTC	TAGGTGATTT	GAGGAGGAAA	GGCACAGCCA	60
TGTCTCCTAA	AGTTAACAAG	CACTAAGCTT	TCCCAAGTAG	TGAAATGTCA	AGCCTCTGCT	120
TCTGTCACTT	ATTTGTTCAT	TCAGCAGAAA	GTCACTGAGA	GCCTTCTGTA	CACCAGGCAC	180
AGTGCTGGGC	AGTGAAAGAG	ACAGACATGT	CCCTGGATCC	AGGGAGGAGA	TGACCAAGTG	240
ATGGCTGTCA	GGCCCAGACC	TTGCTGTTTG	TCTGCAGCCT	CTTCCCTCAG	GCAACTTGTT	300
CTCTATCAGG	AGAAATGAAA	TATTATTAT	CTGGAGCTCT	CGAG		344

- (2) INFORMATION FOR SEQ ID NO:1309:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 565 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
    - (2) 10102011 121100
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309:

GAATTCGGCC	TTCATGCCTA	AAAAGGGTCA	GAGGAAGGCA	GTATCCTTGG	GGTGTTGCTG	60
AAGTTGAAAA	TGGTGAACAT	TGTGATTTTA	CAATCCTAAG	AAATATGTTG	ATAAGAACAC	120
ACATGCAGGA	CTTGAAAGAT	GTTACTAATA	ATGTCCACTA	TGAGAACTAC	AGAAGCAGAA	180
AACTTGCAGC	TGTGACTTAT	AATGGAGTTG	ATAACAACAA	GAATAAAGGG	CAGCTGACTA	240
AGAGCCCTCG	AGTTGCAGGG	AGCCCAGATC	ATGCCACTGC	TCTCCAGCCT	GGGTGACAGA	300
GCAAGACTCT	GTGCCCCCC	CCCACCCCAA	AAAAAAAGAA	AACAAAAATT	AAAATCTTTA	360
GTTACTGTAT	TATTCAAAAA	TGTCTACTTT	CAAGAAAAAC	TACAGCCATG	CAAAGAAACA	420
GTAAAATGTG	ACCATACTCA	GGAAAAAAAG	CAGACAATAG	AAATGGCTTC	TCAGTAGGGC	480
TATATGTTGG	ATTTAGCAGG	CAAAGACTTC	AGAGGCCTTT	TAATAAGTAT	ATTCAAAGAA	540
TTACAGGAAA	ATATGAAAAC	TCGAG				565

- (2) INFORMATION FOR SEQ ID NO:1310:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 104 base pairs
    - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310:	
TGCACAGCTG TAGTACCCCA AGAAGAAAAT GTTACTTCTC TCATCTGGGC AAAACCCACA GAAGACTTCC CAGCTTCTGC CACATAAAAG ACACAGAACT CGAG	60 104
(2) INFORMATION FOR SEQ ID NO:1311:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 105 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311:	
GAATTTTGCG TTCTGTTTAG CATGCTATCC TGTGTGAAAG AAACTGAAAT CCAATATTAT GGAGAGTATG TTAAAGCCAC CTCTGAAATG AAGACCACTC TCGAG	60 105
(2) INFORMATION FOR SEQ ID NO:1312:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 407 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312:	
GAATTCGGCC TTCATGGCCT AAAGGGAAGG GAGGTGTGAG GAGGATGGAG TAAGAGTGAG AGGTCCTAAG AACATGGAGG GAGGCTGTGT GTGATCGATG GAGAAATATG GTCCTGAGAG ATTTCTTGTA GTCAAGAATG GCCAATACAT GTCTACCTTT AACTGGTATT GGAAGGAAGT AGTTTCCTGC TCTGTGCTCT AAATACTCTC TATTACCCTC AAGATGTCAG CAAAATGTGA TACATAGCAA TCTTGTGTTA GAGATGCTT AGGAATTGCA GAAAAACCAT GCTATCAAGT GGTAGGGAAG TGAGTGGCAA GAGGATGTCT GTCACAGAAA CTAGGGATAG AGGGGCTGGC AATGGCAGAG ATGCAGGTGG AGTGGACTGA TTAAGGGGAG TCTCGAG	240 300
(2) INFORMATION FOR SEQ ID NO:1313:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 292 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:	
CANTROCCOO TECNECCOE NOCETACO ACATECOCO ACCESTACIONES CANTROCCO	61

GTTCAAGTAG TCCTCCACCT CAGCCTCTCA AAGTACTGGG ATTACAAGCG TTGAGCCACC CTCCCAGCCT TTGCCTTTTT TTTTTTTTT TTTTTTTTTT	120 180 240 292
(2) INFORMATION FOR SEQ ID NO:1314:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 309 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:	
SAATTCGGCC TTCATGGCCT AGATCCAAGA AGCTCAACAG ACCTCAAGTA GGATAAACAC AAACAGATCT TCACTAAGTC CTACTGCTGA AAGACAAGA CGAGGAGAAC ATCTTGAAAG CAGTGAGAGA AAAACAACTC ATTATGGAGA GAGCAATGAT AAAATTCTTA TCAGAACAGT GGAGGCCAGA AGGAAATAGA GTGACATATT CAAAATGCTG AAGGAAAAAT TTGCAACTAC AAGTTCTAGA TCCAGCAAAA TTATCCTTCA AGAATGAAGG TTTAGTAAAG ACATTCCCAG ACCCTCGAG	60 120 180 240 300 309
(2) INFORMATION FOR SEQ ID NO:1315:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 469 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315:	
GCCCCAGCT CCTGAGTAGC TGGGATTACA GGCATGCACC ACCACACCCA GCTAATTTTG AGAGACAGGG TTTCACCATG TTGGTCGGCC TGGTCTCAAA CTCCTGACCT AGTGATCCA CCCGCCTTAG CCTCCCAGAG TGTTAGAATT ACAGGCGTGA GCCACTGCAC CCGGCTGGGA AACATTTTTA AAACGGCGCA GGGTTGTCCT TGAAAGTCCC AGGTTTCCTC ATTGGCCCTG CCATTGGCGG GTGGGTGATT TCAGGCAGGA CACGCAGTGT CTGGGGACCC CGGCTTTCTC ACTGGAGAC GATTGTTATG GTCCAGAGGG TGGTAACTCA GGTGTTCATG CCTGATTCTG GATGTTCTCT GCAGCTGCTG GAGTCTCCTG ATTGGACAGC AGCAAATGAC CGTTCAATGA CAGTTCTAGT TGTACCTCTA GCACCCCCAC TCGCTCGAG	60 120 180 240 300 360 420 469
2) INFORMATION FOR SEQ ID NO:1316:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 262 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316:	

60

120

GAATTCGGCC TTCATGGCCT AATCTATGTG TGTCAACTTT CATAGAACCC TACACCAAAA

AAGGTGAATT TTATTTCGTG ATAAATTAAA AAGTAAAACA AAAGAGACAA AAATAGTAAC

CAGGGAAGCT TTCAAAAAAT ATATGTTCTT GTTCAAGACC AGCATGGCCA ACATGGCGAA ATCCCATCTC TAATAAAAAT AGAAAAATTA GCCAGGCGTG GTGGTGGGCG CATGTAGTCC CAGCTATCCA GCACCGCTCG AG	180 240 262
(2) INFORMATION FOR SEQ ID NO:1317:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 497 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317:	
GAATTCGGCC TTCATGGCCT AAAGGAATGG TATTTTGGCA ACGCAGACAA AGAAAGGAGT GGCCCGTATG GATTTCAIGA GATGCAAGAA TTGTGGACCA AAGGAATGTT AAATGCAAAA ACCAGATGCT GGGCTCAAGG CATGGATGGA TGGCGACCAC TTCAGTCCAT ACCCCAGCTC GGAGTCATAT AAGGTAACCC AGACAACCAC CTACGAATTT AAAGCTCCTA TAAGTTGCCC TTTCTGCATC CGAAGTGTGA TATTTGAAAG TTAAAAACGT TATCTTACAT ACATAGATCT TAAAACGTAT CTTACACCAC AACCTACTCA CAGATGCAA GGCAGTGGTC GTGGTCTTCC ATTGCTTGGG GTCCTGGGC CGGGTTTGAG GCTGAATGTC AGGGTTTCCT TTGCCATAAC CTCATTCTGC ACCACGTGCT GTCAGCCAGG CAGCCAATGT GGACTTGGAG GCTGGCATCT GCTGGGCACT GCTCGAG  (2) INFORMATION FOR SEQ ID NO:1318:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 451 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	60 120 180 240 360 420 480 497
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318:	
GAATTCGGCC TTCATGGCCT AATCTGGATG TCTGTCCAAG GCCTGACTGC TGAACTCCTA CTTTTCCTAC AAAACCCTAC CCACATGGCC CTTCCTGCGG GAAGAGATCT TGAGCCTCCC TGGCTATTAA GACTCTGCTG TGCAGCCTTC TTTTACTGGA CTCAGGGCTA TCTTCCCCAG	60 120 180
ACTAGGGCCT TCTTGAGGAC AATCGTGGT GCCCAGTGGT TGACGCTGTC TCCCCTGCAT	240

- ATGCATATGG ATCGTGCCCA CACGCCTCGA G
  (2) INFORMATION FOR SEQ ID NO:1319:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 477 base pairs

GTAGTTGGTC TTCCTGGTTG CTTCTTGCCC CTGTGGCTCC CTTGGGAGAC TGAAACTCAG

AGGACAGCTT CTGGTCTGCT GTTACATGGC TCCCACAGGG AGACTGGCCC CACCTGTGCC CCACCCATCA CAGCTAGGGC CTGGGATGGG TCAGACACTG GAAGAGCCTC CCCCTAGGCC

300

360 420

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319:

TAAATAACAT GGCCATTTT TAAAAAGGAC ACAGGAACTA CATAACATT TTTTTCAGAT TTTGGAAAAAT TCTAGAATAT TCTTGGAAAAA CTTTTCTTC TGTTCCATTC TCCTTCCTAT TCTCCATGAC CCCCTCCCCG CGGACTGTAT CAGGTACAGC CTGTTGGAAA TCCAGCACCG CACATTAGGC ACACCAGTGG TAAGTTTACT TGTTGAGTTA TCACCTTTTT TTTCCTTTTA ATCAGAGAGG CAGCTCTGTG TTGAAGATGC TAGGTAGTGA TGGAAAAGAC ATTAGGAAAA TTTTTTTTTT	120 180 240 300 360 420
(2) INFORMATION FOR SEQ ID NO:1320:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 284 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320:	
GAATTCGGCC TTCATGGCCT AGACGGAGGC TGGAGATTCA CATGGGGCGA GGAGTTGCAG ACCAGCCTGG GCAAAGCATG GTGAGGCCCC GTCTCTGCAG AAATGAGAAA ATGAGCTGGA IGTAGTGGCA CCGACATGTG GTCCCAGCTG CTGGGAGGGC TGAGGTGGGA GGATTGCTTG AGCCTAGGAG TTCAAGGCTG CGGTGAGTAG ATCGTGCCAC TGCGCTCCAT CCCTGGCAAC AGAGCAAGAT CATTTCTCAA AAAGAAAAAA AAAGCCATCT CGAG	60 120 180 240 284
(2) INFORMATION FOR SEQ ID NO:1321:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 254 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321:	
GAATTCGGCC TTCATGGCCT AGGGAAATGT GTGATTGGGA AAGAGGCAGC TTTTAAAAAT GTGTCTGGCC TTTGACCACG CAATTTCACT TTCCAGTATT TATTCTAGGA AAATACTCAT ACTATTGCAA AGTTTATATA TAAAGATAGT TATAACTGCA TTGTTTATCA TTTACAAAAA GAAAACATCT GAAAGCCCAA CAAGACGGAA CTGGTTATTC CACATTGGCA CATTCATACA AGGCAATGCT CGAG	60 120 180 240 254
(2) INFORMATION FOR SEQ ID NO:1322:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 352 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1322:	
GAATTCGGCC TTCATGGCCT AGGCACAGAA AAATTGGAAA GGATTGGTGG TCGTACATCT	60 120

GCTGGCATTG GGGTGGGTG TAGCATGGTC AAGCTGGCTG AGTGATGGGA TATTGTCTCA GAGGTTGGTG CAGGGAAACT CTGTGGGTGT GTCTAATGCA AGGATAATGA CAATGTCCTG TCTGCCTGGT CTTTGGGGGG TCAGGTGGAG ATGTCCTTTT GGAAAGGCAG CCATTCTCTT TGAGTGTCCA GAGGGCATGG TGCAGGCACA TGGATTGAGT GGAGGACTCG AG	180 240 300 352
(2) INFORMATION FOR SEQ ID NO:1323:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 440 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1323:	
GAATTCGGCC TTCANGGCCT ACTGTGTGTA GAATTCTGTT TTCTCATGAT ATTGAAGACA TTATTCCAGT ACTTTGACTG CTAGTATATCC TGTTGAAAAAG TCTTAATTGC CCTTCCCTTTG TAAGTAATAAA CCCTTTTATT TGGCTGTT AAGCCTTTTT TTTTCCTTC CATTTAGTGT TGTAAATCCCA CTTGGGATTC TTTGGGCTTC CTGGATCTGA GAATAATAAT AATGTCTTTG AATAATTGTG GAAAATTCTT AACCATTATC TCTTTGAATAA ATGCCTCTT TTTTCCTCTT CTATAACTCT AATTAGACAT ATAGTCTATT TTTCATGTTA CTTTTATTTTT TTCGTCTCCA CATACTCGAG	60 120 180 240. 300 360 420 440
(2) INFORMATION FOR SEQ ID NO:1324:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 280 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1324:	
GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCC TAAAAATGCCC AGTTACCTGA AATTGTATAA ATTCTTGCCA AAAGTGTTTG AACTTAATAC AAACTTCCCA TCTCTTACCT CTTAGCACTG TGCTCATCTT GAGGGGACAT AGTCCCAATT TTGTATTTTA TATAATACTG TTAATGAATA TGTGTAGACT TCATATGGTT GTGGGTAAGA GAATACTGCA TTCAGATAGA AAAGATGCTA TATAGCTAAG TTGATCCGCG GATCCTCGAG	60 120 180 240 280
(2) INFORMATION FOR SEQ ID NO:1325:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 281 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	

120 180

GTTTCCTTT CTACTTACAA AGAAATAAA TAGAAATAGA TTTTACATGC TTTATTTCTT
TGAGACAAGC CATTGTAAAT TGTTACTAGA CTAAGTAGTA GTATACCAGT CATTGACTGG
TCTTTTCAAC TCCACTCAAA TTTGTAAAAA GCAATTCCTC TTATACTATC ATCTTTTTTG

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325:

TTTTTTAAGG TTTTTGTTGT TGTTTGGTTT TTTGGCAAAA CATGATACAT TTCTCATGCT 240
TGATCTAAAG AGGCTTTACA TAAGAGACAG AGTCGCTCGA G 281

- (2) INFORMATION FOR SEQ ID NO:1326:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 348 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1326:

GAATTCGGCC	TTCATGGCCT	ACTATCTTGA	ATGTCCAACT	CCAACTCCTA	AATTATTTAA	60
AAATCTATGC	ACTTCTTTCA	CTTGAATTTC	TATGCCCTCA	TAGACTTTAC	AGGCACATGT	120
TCTATCACCA	ATTAAGAGAA	ATTTAACTTA	CACATTTTAC	AACTTATACA	TGCAATTTGG	180
CTGAGCTTAT	ACAGCACAGA	TCAACATTAC	AATCAATTTA	CTGCCATGTT	ААААААААА	240
TCAGTGAACA	TTGTTCGGCT	GACCTAATTT	TTTGAAATAA	GTTGGCCATC	AGTGTAATTG	300
ATTGAGCTAT	CTGTACAACC	CCCAACCTAC	CTAAGCAAAG	GGCTCGAG		348

- (2) INFORMATION FOR SEQ ID NO:1327:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 680 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1327:

GAATTCGGCC	TTCATGGCCT	ACACGGACTT	ACATCCTCAT	TACTATTCTG	CCTAGCAAAC	60
TCAAACTACG	AACGCACTCA	CAGTCGCATC	ATAATCCTCT	CTCAAGGACT	TCAAACTCTA	120
CTCCCACTAA	TAGCTTTTTG	ATGACTTCTA	GCAAGCCTCG	CTAACCTCGC	CTTACCCCCC	180
ACTATTAACC	TACTGGGAGA	ACTCTCTGTG	CTAGTAACCA	CGTTCTCCTG	ATCAAGTATC	240
ACTCTCCTAC	TTACAGGACT	CAACATACTA	GTCACAGCCC	TATACTCCCT	CTACATATTT	300
ACCACTAACC	CTCGAGACCA	CTTCATATAA	ATACTTATTT	ATTTCCTATT	TCCCCTGACT	360
AGAAATATAA	GCTCCATGGT	AGCAGAGATT	CTGATTGCTG	CCTACTCTAT	CCCCAGCTCC	420
TATACTAGGC	ACCATGAGTA	CATGATCAGA	AAATATTCAT	GGAAAAAAAT	ACATAAATGT	480
ATAACAATCT	TCATTTGTGA	GTAAGAAGAT	GGGCTCTGGA	ATCAGACTGC	CTGGATTGAA	540
ATCCTAACTT	CATCACTTAC	TAGTCATGGG	ATATTTTACC	TCAGTTTCAC	TTTTTGAAAA	600
TGAAGATAAT	AATGTCTACC	TTATAGTATT	GTGAGGATTA	AGTGAATTAA	TGCACACAAA	660
ATTAGGCCAT	GAAGGCCGAA			·		680

- (2) INFORMATION FOR SEQ ID NO:1328:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 499 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328:

PCT/US98/06956 WO 98/45437

GAATTCGCGG CCGCGTCGAC TGTCACTGAG CTTCTTGGCT CTCTTATATA TATTCTTTAT TGTCATTTAC TTTGGTGGAC GAAGAGAAGG AGAGAGTTGG AATTGGGCCT GGGTCCTCAG CACTAGATTG GCAAGACATA TTGGATATTT GGAACTCCTC CTTAAATTGA TGTTTGTGAA TCCACCTGAG TTGCCAGAGC AGACTACTA AGCTTTACCT GTGAGGTTTT TGTTACAGA TTACAATAGA CTGTCCAGTG TAGGTGGAGA AACTTCTCTG GCTGAAATGA TTGCAACCCT CTCGGATGCT TGTGAAAGAA AGTTTGGCTT TTTGGCAACC AGGCTTTTTC GAGTATTCAA GACTGAAGAT ACTCAGGGTA AAAAGAAATG GAAAAAAACA TGTTGTCTCC CATCTTTTGT CATCTTCCTT TTTATCATTG GCTGCATTAT ATCTGGAATT ACTCTTCTG CTATATTTAG AGTTGACCCA AAGCTCGAG	60 120 180 240 300 360 420 480 499
(2) INFORMATION FOR SEQ ID NO:1329:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 200 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1329:	
GAATTCGCGG CCGCGTCGAC CGCTGCCAAA TGCTTCACTC CTATCTACTC TCCCGATTCC TTATACTTCT GAACCTCCTC AACAGAAATC TTGCTCTCTC CCTAAATCCT CAGTGCAACA TACGTCCGCA AAAACTAAAT GATCCCTCCT CAGCCAGACA GAAAACTCTC AACATATCAA CACTCCCAAG GCGTGGACAG	60 120 180 200
(2) INFORMATION FOR SEQ ID NO:1330:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 158 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1330:	
GAATTCGGCC AAAGAGGCCT ACAGTCTTT TAGGCATGTT TTTTTTTTT TTGGTGTGTG TGATGACAGG AATATGCATT TTATCTGTAG TGGTTTTAAA TCCTGTATTA AGCGTTGTTT TCTTTTCAGA CTGCAAAATT CAAAATGGGG CTCTCGAG	60 120 158
(2) INFORMATION FOR SEQ ID NO:1331:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 552 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1331:	
GAATTCGCGG CCGCGTCGAC GATCATGAAG CGCTCGGTAG CCGTCTGGCT CTTGGTCGGG CTCAGCCTCG GTGTCCCCCA GTTCGGCAAA GGTGATATTT GTGATCCCAA TCCATGTGAA AATGGAGGTA TCTGTTTGCC AGGATTGGCT GATGGTTCCT TTTCCTGTGA GTGTCCAGAT GGCTTCACAG ACCCCAACTG TTCTAGTGTT GTGGAGGTTG CATCAGATGA AGAAGAACCA	60 120 180 240

ACTTCAGCAG	GTCCCTGCAC	TCCTAATCCA	TGCCATAATG	GAGGAACCTG	TGAAATAAGT	300
GAAGCATACC	GAGGGGATAC	ATTCATAGGC	TATGTTTGTA	AATGTCCCCG	AGGATTTAAT	360
GGGATTCACT	GTCAGCACAA	CATAAATGAA	TGCGAAGTTG	AGCCTTGCAA	AAATGGTGGA	420
ATATGTACAG	ATCTTGTTGC	TAACTATTCC	TGTGAGTGCC	CAGGCGAATT	TATGGGAAGA	480
AATTGTCAAT	ACAAATGCTC	AGGCCCACTG	GGAATTGAAG	GTGGAATTAT	ATCAAACCAG	540
CAAATCCTCG	AG					552

- (2) INFORMATION FOR SEQ ID NO:1332:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 760 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1332:

${\tt GAATTCGCGG}$	CCGCGTCGAC	CTCAGAACTA	TTTAAATTTA	GTTAAATTAC	TATTATATTT	60
TATAGTAAAT	ATTGGTCCAC	TTTATAGCTC	AGAACCTAAA	AAGAGAATAT	GTACCCAAAC	120
TTCTCTATGT	TTACAACCAA	CCCAGAGTTT	AAGATTCTGA	ATTGTGCTTT	GTTTTGTTAA	180
AAATTTAACC	AAGGGTCAGG	CACAGAGGCT	CATGCCTATA	ATCCCAGCGC	TTTGGGAGGC	240
CGAGGCGGGT	GGATCACTTG	AGTTCAGGAG	TTCGGGACCA	GCCTGGCCGG	CATGGTGAAA	300
CCCCGTCTCT	ACTAAAAATA	CAAAAGTTAG	CCGGGTGTGG	TGGCATGTGC	CTGTGGTCCC	360
AGCTGCTTGG	GAGGCTGAGG	CAGGATAATC	NCTTGAACCC	AGGAGGCAGA	GGTTGCANTT	420
GCAGTGAGCC	GGGATTGTGC	CATTGTACTC	CAGCCTAGGC	AACAAGAGCG	AAACTCTGTC	480
TTAAAAAAAA	AAAAGAAAAA	AAAATTAACC	AAGGTTCTCC	TTTCTCTAAA	TCTAGCAATT	540
TGTTCTATTT	TTCAGAAATA	AACTTAATAA	TTTTAATACA	GATTTTAGCT	TTGGCTTTTT	600
${\tt TCTTACTTTT}$	TAGTTTGCAA	ATTATTTTAT	GGTATTCCTA	CAAAGTAGAT	ACAAATTTGC	660
ATTCAGAATG	CACCTTTTGT	TTTTCTGGGT	TTTTTTTTTT	GTTTGTTTGT	TTTTTCAGAA	720
AACTCATGGA	AAAGTACACT	GTTCACCTCA	GCATCTCGAG			760

- (2) INFORMATION FOR SEQ ID NO:1333:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 579 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1333:

GAATTCGGCC	AAAGAGGCCT	ANAACTGGGT	AAGGAGCAAA	AAAAGTGACA	GAGGCCAGGC	60
GCGGTGGCTC	ATGCCTACAA	TCCCAGCACT	CTGGCCAAAT	ATTTGATTTT	AAATTCCCAT	120
TGTTACTGAT	TAAAAAAAAA	AAAAATCTGG	ACCAGTTAAC	CTGGAGATTT	AGAGGCTATA	180
GACACAATTT	AACATCCATA	CAGGCCTGTG	AACTTCATGC	AGAGAACAAA	CAAACAAACA	240
AAAACTCTAA	TTCAGAGTCT	CTCATTTCAG	CTTAGCCAAC	ACATTTGGAG	ACTTAGGGGC	300
CAGTTCTAGA	AGCTGCTTTT	ACCTCTAGAC	TCGGAGGGGC	AGGCCCTGTC	ACCGAAGGGA	360
GGAAAACTCT	TCTTGGCTGT	CAGCCCGGAT	TGAAGCCACT	TCGCTTCCCC	TGGCCCCAGC	420
TTTCCTGCAC	TCTTTTCACC	GTGTCTGACA	CAGGGCAAAC	CACCAACCAC	TCAAATGAGC	480
AAACAATTCC	AGAAAAAAGA	ATCCGAGATA	AAGAATAACC	AACTAGGAGT	CTTTCCATTG	540
TAGCCTAAAC	CGTCGATTGA	ATTCTAGACC	TGCCTCGAG			579

- (2) INFORMATION FOR SEQ ID NO:1334:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 521 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1334:

GAATTCGCGG	CCGCGTCGAC	CAACAAGGGC	AAAGGCCTTG	AGACACAAAC	CAACTGTGTG	60
GGTGTAAAGG	TAAGAAAGGC	CAGTGAGGCC	AGCATGATGA	ACTGGGGGAG	CATGGTGGCT	120
GATTTGGTCA	GGAAGGGAAC	AGAAACCAGA	CCACTTGGGA	TCTTCTAGCC	AGAGTAAAGA	180
GACTGAGTTT	ATTCCTATTG	TAATGGGGAG	CTATTCAGAG	AGGTTAATCA	TGGAAGTGAT	240
GTGACCTGAG	CTACACTCTT	AAAAGATGCC	TCTGGCTGCT	GTGTGGAGAA	TGAACCATGG	300
GGGCAAAAGC	AGAAACAAGA	AGACCACTTA	AGAGGCTCTT	GCAATAATTT	ATGTGAGAAG	360
AGTGATCATC	TTGACTAGGG	TGGTGGTGGT	AGAGGAGGTG	AGTGGTGGTC	AGGACTGAGA	420
GGAGCCAACA	GAATTTGCTG	GCTTGCTTGG	ATGTGGGTGA	TGAGGCAAAC	TGAGAATCCA	480
AGATGGCACC	AAGGCTTATA	CCCTGAGCAA	CTGAACTCGA	G		521

- (2) INFORMATION FOR SEQ ID NO:1335:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 775 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:

GAAATTCGCG	GCCGCGTCGA	CGCTCTTGAG	TGAGACCCAA	CAAGCTGCTT	TTCACCAAAT		60
TGCAATGGAG	CCTTTCGAAA	TCAATGTTCC	AAAGCCCAAG	AGGAGAAATG	GGGTGAACTT		120
CTCCCTAGCT	${\tt GTGGTGGTCA}$	TCTACCTGAT	CCTGCTCACC	GCTGGCGCTG	GGCTGCTGGT		180
GGTCCAAGTT	CTGAATCTGC	AGGCGCGGCT	CCGGGTCCTG	GAGATGTATT	TCCTCAATGA		240
CACTCTGGCG	GCTGAGGACA	GCCCGTCCTT	CTCCTTGCTG	CAGTCAGCAC	ACCCTGGAGA		300
ACACCTGGCT	CAGGGTGCAT	CGAGGCTGCA	AGTCCTGCAG	GCCCAACTCA	CCTGGGTCCG		360
CGTCAGCCAT	GAGCACTTGC	TGCAGCGGGT	AGACAACTTC	ACTCAGAACC	CAGGGATGTT		420
CAGAATCAAA	GGTGAACAAG	GCGCCCCAGG	TCTTCAAGGT	CACAAGGGGG	CCATGGGCAT		480
GCCTGGTGCC	CCTGGCCCGC	CGGGACCACC	TGCTGAGAAG	GGAGCCAAGG	GGGCTATGGG		540
ACGAGATGGA	GCAACAGGCC	CCTCGGGACC	CCAAGGCCCA	CCGGGAGTCA	AGGGAGAGGC	7	600
GGGCCTCCAA	GGACCCCAGG	GTGCTCCAGG	GAAGCAAGGA	GCCACTGGCA	CCCCAGGACC		660
CCAAGGAGAG	AAGGGCAGCA	AAGGCGATGG	GGGTCTCATT	GGCCCAAAAG	GGGAAACTGG		720
AACTAAGGGA	GAGAAAGGAG	ACCTGGGTCT	CCCAGGAAGC	AAACAGAGAC	TCGAG		775

- (2) INFORMATION FOR SEQ ID NO:1336:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 155 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336:

GTAGATTTAG	ATGTACAGAT	AGAGGTATGA	TTTTTTTAAA	AGGCACCTCA	GTATGGGTAA	60
TGTTATCTTT	CTTGTGTTTC	AGTGCACACA	CATACACACA	CACCATAGAT	GCAAAGTGTG	120
TAGAAAATGT	ATTGAAGGAT	ACCCAGGTAC	TCGAG			155

(2) INFORMATION FOR SEQ ID NO:1337:

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 138 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337:	
GAATTCGCGG CCGCGTCGAC ATTCATGCAA ATAAATATAT TACTAAAATG CTACCTGTTT CTTTTTCCTC TTTTTCTTCC AGTTTTAGTT TATGAGATTG GGTCTTGCTA TGCTGCCCAT GCTAGGCATG AACTCGAG	60 120 138
(2) INFORMATION FOR SEQ ID NO:1338:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 249 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1338:	
GAATTCGCGG CCGCGTCGAC CTAAACCGTC AATTCTTCCC ATCTTAGGTT TCTCTCCTCG GAAGCCTTCT CTTTAGAATC GAACATTTC TCTTCTGGCT TTGTTCGGAT GGTTTCTGGT CTGTTTCTTT CTTGCTCCCT CGTGGCTTTC ACTTCTGTTT TCTTTCCCAG AATGACGGTC CTCTCATTTG ACCGTGTGCT TTCCGAAGCA CCTGCTGCCA CCTTGTCTCG GCGATCCCGG TTACTCGAG	60 120 180 240 249
(2) INFORMATION FOR SEQ ID NO:1339:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 108 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: double</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1339:	
GAATTCGCGG CCGCGTCGAC AAAACAACAC ATTTTAAAGA TTACGTGCTT CTTGGTACAG GTTTGTGAAT GACAGTTTAT CGTCATGCTG TTAGTGTGCA TCCTCGAG	60 108
(2) INFORMATION FOR SEQ ID NO:1340:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 652 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
536	

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1340:

GAATTCGGCC	AAAGAGGCCT	AATAGAAGGC	ATTCCATATT	TGTTCAATGA	ATTAACAAAT	60
GTTTTTCATA	TTAATTGTTC	TGATTTTTAC	CTCCTTAGGC	CAGCCTTTAT	TATTGCCATA	120
TAAGCCTTCT	GGTAGTACCA	AGATGTATTA	TGTTCCACAA	TTAAGACAAA	TTCCTCCATC	180
TCCGGATTCC	AAATCAGATA	CCACCGTTGA	AAGCTCCCAT	TCAGGATCCA	ATGATGCCAT	240
TGCTCCAGAC	TTCCCAGCTC	AGGTGCTAGG	CACAAGAGAT	GATGACCTCT	CAGCCACTGT	300
TAACATTAAA	CATAAAGAAG	GAATCTACAG	TAAGAGGGTA	GTGACTAAGG	CATCCTTGCC	360
AGTGGGAGAA	AAACCCTTGC	AGAATGAAAA	TGCAGATGCC	TCAGTTCAAG	TGCTAATCAC	420
TGGGGATGAG	AACCTCTCAG	ACAAAAAACA	GCAAGAGATT	CACAGTACAA	GGGCAGTGAC	480
TGAGGCTGCC	CAGGÇTAAAG	AAAAAGAATC	TTTGCAGAAA	GATACTGCAG	ATTCCAGTGC	540
TGCTGCTGCT	GCAGAGCACT	CAGCTCAAGT	AGGAGACCCA	GAAATGAAGA	ACTTGCCAGA	600
CACTAAAGCC	ATTACACAGA	AAGAGGAGAT	CCATAGGAAG	AACGACCTCG	AG	652

- (2) INFORMATION FOR SEQ ID NO:1341:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) Lingth: 817 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1341:

GAATTCGGCC	AAAGAGGCCT	ACGTGCCATT	TCTCTTCCAC	TATGAGAGGA	CCGATTGTAT	60
TGCACATTTG	TCTGGCTTTC	TGTAGCCTTC	TGCTTTTCAG	CGTTGCCACA	CAATGTCTGG	120
CCTTCCCCAA	AATAGAAAGG	AGGAGGGAGA	TAGCACATGT	TCATGCGGAA	AAAGGGCAGT	180
CCGATAAGAT	GAACACCGAT	GACCTAGAAA	ATAGCTCTGT	TACCTCAAAG	CAGACTCCCC	240
AACTGGTGGT	CTCTGAAGAT	CCAATGATGA	TGTCAGCAGT	ACCATCGGCA	ACATCATTAA	300
ATAAAGCATT	CTCGATTAAC	AAAGAAACCC	AGCCTGGACA	AGCTGGGCTC	ATGCAAACAG	360
AACGCCCTGG	TGTTTCCACA	CCTACTGAGT	CAGGTGTNCC	TCAGCTGAAG	AAGTATTTGG	420
TTCCAGCCAG	CCAGAGAGAA	TATCTCNTGA	AAGTGGANTT	GCCAAGGCCA	TGTTAACCAT	480
TGCTATCACT	GCGACTCCTT	CTCTGACTGT	TGATGAAAAG	GAGGAACTCC	TTACAAGCAC	540
TAACTTTCAG	CCCATTGTAG	AAGAGATCAC	AGAAACCACA	AAAGGTTTTC	TGAAGTATAT	600
GGATAATCAA	TCATTTGCAA	CTGAAAGTCA	GGAAGGAGTT	GGTTTGGGAC	ATTCACCTTC	660
ATCCTATGTG	AATACTAAGG	AAATGCTAAC	CACCAATCCA	AAGACTGAGA	AATTTGAAGC	720
AGACACAGAC	CACAGGACAA	CTTCTTTTCC	TGGTGCTGAG	TCCACAGCAG	GCAGTGAGCC	780
TGGAAGCCTC	ACCCCTGATA	AGGAGAAGCA	CCTCGAG			817

- (2) INFORMATION FOR SEQ ID NO:1342:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 476 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

1 1 111

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1342:

GAATTCGGCC	AAAGAGGCCT	AGCACCATGG	ACAACCCACA	GGCTCTGCCA	CTCTTCCTAC	60
TCCTGGGGAT	CCTCACCCTC	AGAGCCTCTT	CTGGACTTCA	GCAAACCAAC	TTCTCCTCTG	120
CCTTCTCTTC	AGACTCAAAG	AGCTCTTCCC	AGGGGCTGGG	TGTGGAAGTT	CCCTCCATCA	180
AACCTCCCAG	CTGGAAAGTT	CCAGATCAGT	TCCTGGATTC	AAAAGCCTCT	GCTGGAATCT	240
CTGATTCCAG	CTGGTTTCCT	GAGGCCCTGA	GTTCCAACAT	GTCTGGGTCC	TTCTGGTCAA	300
ATGTTTCTGC	TGAGGGCCAA	GATTTGAGCC	CGGTTTCCCC	CTTCTCTGAA	ACCCCTGGTT	360

CTGAAGTATT TCCTGATATT TCGGATCCTC AAGTTCCTGC CAAAGACCCC AAGCCTTCCT 420 TCACTGTTAA GACCCCAGCT TCAAACATTT CTACTCAAGT CTCCCATCTC CTCGAG 476 (2) INFORMATION FOR SEQ ID NO:1343: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 726 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1343: GAATTCGCGG CCGCGTCGAC CAGGAAATGA AGACATTGCC TGCCATGCTT GGAACTGGGA AATTATTTTG GGTCTTCTTC TTAATCCCAT ATCTGGACAT CTGGAACATC CATGGGAAAG 120 AATCATGTGA TGTACAGCTT TATATAAAGA GACAATCTGA ACACTCCATC TTAGCAGGAG 180 ATCCCTTTGA ACTAGAATGC CCTGTGAAAT ACTGTGCTAA CAGGCCTCAT GTGACTTGGT 240 GCAAGCTCAA TGGAACAACA TGTGTAAAAC TTGAAGATAG ACAAACAAGT TGGAAGGAAG 300 AGAAGAACAT TTCATTTTTC ATTCTACATT TTGAACCAGT GCTTCCTAAT GACAATGGGN 360 TCATACCGCT GTTCTGCAAA TTTTCAGTCT AATCTCATTG AAAGCCACTC AACAACTCTT 420 TATGTGACAG GAAAGCAAAA TGAACTCTCT GACACAGCAG GAAGGGAAAT TAACCTGGTT 480 GATGCTCACC TTAAGAGTGA GCAAACAGAA GCAAGCACCA GGCAAAATTC CCAAGTACTG 540 CTATCAGAAA CTGGAATTTA TGATAATGAC CCTGACCTTT GTTTCAGGAT GCAGGAAGGG 600 TCTGAAGTTT ATTCTAATCC ATGCCTGGAA GAAAACAAAC CAGGCATTGT TTATGCTTCC 660 CTGAACCATT CTGTCATTGG ACTGAACTCA AGACTGGCAA GAAATGTAAA AGAAGCACCA 720 726 (2) INFORMATION FOR SEQ ID NO:1344: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 484 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344: GAATTCGGCC AAAGAGGCCT AGGGACAGCA ATCAAGTTCT AATGGTGCTC ACTTTTTAGG TCACCTTCAT CACAGACTGC TCCAAAGGCA GAGCAATGTG GAACGAACCA GCACATTTAC 120 TTAAGATCAA AGTATGATAC ATCTCTTTGA GCGCCTCACT TCACAATAGG GATCCATTCA 180 TTGGCTTCCA GATGATGTTC ACAGTTCATG TAACACTGAT ACTGACTTTG TTCCTTATGT 240 TTAGACAGCT TCTCTGTCTA TACTTCTCAG AAACACCATC AACCAGAACA GAGCCACTTA 300 TTATCCACAA AAGTTGCATC AACCAGCTTA CCTTCTGGGA GGGATGGATG GTACCCAAAT 360 ACTCAAACTG AATCCTATAG TGTGGAGCAA CCAAACAGAA AACAGTCCAA GGATTCAGGA 420 AATGGTAAAA ACATTTAAA TCTAAATAGT AGTTATTTTC ATTTTGTTCT GCTCCCACCT 480 CGAG 484

- (2) INFORMATION FOR SEQ ID NO:1345:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 125 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345:

GAATTCGCGG CCGCGTCGAC	ATGAGTTTAA	TTTTTTTTT	TTTTTTTACA	CTTTACATAG	60
AAATAGGATT ATGTGGGCTG	GGCACAGGGA	CTGACGCCTG	TAATCCCAGC	ACGTGGAGGC	120
TCGAG					125

- (2) INFORMATION FOR SEQ ID NO:1346:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 760 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1346:

GAATTCGGCC	AAAGAGGCCT	AGACCCAGCG	TACATACTGA	ATGATCTCTA	CATCTCAGAC	60
TACTGTGTGT	GGATTCAGAA	AGTCAAATCC	AAAAAGTTGG	CAGCTCTTGC	AGAAGCCTTA	120
AAGGAAGTCT	CCCTTACAAA	GGCCCAGCTG	GGGTTAGAAC	TGGAAGAACT	AGAAGCAGCA	180
GCACTGCTTG	TCCAGGAGGA	AGAAACTGCA	TTAAAAGCAG	CCCATTCAGT	TTCTGGGCAG	240
CAGACACTTT	GCTCCAGCTC	TGAGGCAAGT	GATTCGGAGG	ACTCAGACAG	CAGCGTGTCA	300
TCTGGAAACG	AAGACTCAGG	CTCAGATTCA	GAACAAGATG	AACTCAAAGA	TAGTCCATCT	360
GAGACAGTCA	GTTCTTTGCA	AGGTCCCTTT	CTTGAAGAAA	GCAGTGCCTT	TCTTATTGTT	420
		CACAGCCATC				480
		TGGAGTGTCT				540
CTGAAGACTA	CAGTTCAGGT	TTCTGAACCC	AAGGGCACCA	CTGCTGTAAA	CCGCAGCAAT	600
ATTCAGGAGA		TCAGACACCA				660
TGTTGAGAAA	TATGGTAGAT	TGGGTTTCAT	TTACCGAATG	AGAATTCTTC	ATTTTCACTT	720
TGTAATTTTT	CTTAGTATAT	AGTCAGCCCA	CACTCTCGAG			760

- (2) INFORMATION FOR SEQ ID NO:1347:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 352 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1347:

GAATTCGCGG	CCGCGTCGAC	CATTTCGAGA	GTCCGTCTTG	TAAATGTTTG	GCACTTTGCT	60
ACTITATIGG	TTCTTTCTGG	CGACAGTTCC	AGCACTCGCC	GAGACCGGCG	GAGAAAGGCA	120
GCTGAGCCCG	GAGAAGAGCG	AAATATGGGG	ACCCGGGCTA	AAAGCAGACG	TCGTCCTTCC	180
CGCCCGCTAT	TTCTATATTC	AGGCAGTGGA	TACATCAGGG	AATAAATTCA	CATCTTCTCC	240
		TGAAAGTCTC				300
AGTCCAGGTT	TTAGACCGAA	AAGATGGGTC	CTTCATAGTA	AGATACCTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:1348:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 251 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348:

GAATTCGCGG	CCGCGTCGAC	TCTAGGTTTT	CTGATTTTGA	TGGTAATATG	GTATTCTGGG	60
AAATATCTGT	CCAAATTATC	CTGATCTCTG	AACTCCTGCT	GTTGAGGTCA	GTCACTTCAC	120
ACAATACCAT	GATGACAGCT	TTATCAAGCC	AGATGCTTAG	TCAGAGCTTT	CCAAGACCCA	180
GCTTTGGTTT	TATCAGCAAA	ATCCATCCTT	CCCACCCCC	ATACACACGC	CAGTTTGAGA	240
CTCCTCTCGA	G					251

- (2) INFORMATION FOR SEQ ID NO:1349:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 309 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349:

GAATTCGCGG	CCGCGTCGAC	CTAAACCGTC	GATTGAATTC	TGGACCTCCT	GTGCAAGAAC	60
ATGAACCATC	TGTGGTTCTT	CCTTCTCCTG	GTGGCAGCTC	CCAGATGGGT	CCTGTCCCAG	120
GTGCAGGTGC	AGCAGTCGGG	CCCTAGACAG	GTGAAGCCTT	CGGAGACCCT	GTCCCTCAGT	180
TGTACTGTCT	CTCTCGGCGC	CATGAATGGT	CATTACTGGA	CCTGGATCCG	GCAGACCCCG	240
GGAGGGAGAC	TGGAGTGGAT	TGGATCTGTC	TATTATAATG	GAAACAGAGT	GTATCACCCC	300
TCCCTCGAG						309

- (2) INFORMATION FOR SEQ ID NO:1350:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 553 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1350:

GAATTCGCGG	CCGCGTCGAC	AATTACTACC	ATTGTTAAGT	GTCTCTTTAA	CTAAACTCAT	60
TGTTTAAAAG	TTTTCTCCCT	CTCTGTTTCT	AAATCCAAAT	TTCTGCTCTG	GAATATATGT	120
TAGAAGAGAT	ACATTTGTTG	GAATGTTTGC	ATTTCTTTTA	TGAAATGCAG	TATCTTTTGG	180
GGAATATTAT	GTAAATGAAA	TACCAATTAT	TTTAAAAGAG	CATTTTTGTG	TGACATAGTG	240
CTTTCACAAA	CTAAAACTGG	AATTTCTTTC	TTTAGTCTAT	CTATATCTTT	TGAAAATGTT	300
GACACAGCTA	AGAAGAAGCT	GCCTGTTCAT	ATCTTAGATG	GTCTGACCCT	CAGCTACAAG	360
GTATATGCTG	ATATTCCTTG	TATGAACCGT	GTTTTCTGCT	AACATTAAAA	CATGCAAGTA	420
ATTGGTTACT	TTCTAATTTT	GTTTTTGTTT	CATAGGTCCC	ATGGCCCGTG	GACATTGTTA	480
TAAGTTTGGA	ATGTCAAAAA	ATTTATAATC	AAGTGTTTCT	TCTCTTATTG	CAAATAAAGT	540
GGGCATCCTC	GAG					553

- (2) INFORMATION FOR SEQ ID NO:1351:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 209 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

WO 98/45437 PCT/US98/<u>0</u>6956

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1351:

GAATTCGCGG	CCGCGTCGAC	TTTATTTCAG	TGGATTCTCT	AGGATTTTCT	ATATAAAAGA	60
TGTCATCTGA	TAGAGTAGTT	TACTTCTTCG	TTTCCAACCT	GAATGGCTTT	TATTTCATCT	120
CTTTCCTAAC	TGTCCTGGCT	AGAACCTCCT	TTACCACGTT	GAATGGAAGT	GGCAAGAATG	180
AACATCCTTG	TCTTGTTTCT	GATTTCGAG				209

- (2) INFORMATION FOR SEQ ID NO:1352:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 525 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1352:

GAATTCGCGG CCC	GCGTCGAC AATGGCTTT	CITCCTTCCT	GGGTTTGTGT	ACTAGTTGGT	60
TCCTTTTCTG CT	CCTTAGC AGGGACTTC	AATCTCTCAG	AGACAGAGCC	CCCTCTGTGG	120
AAGGAGAGTC CTC	GGTCAGCT CAGTGACTAC	AGGGTGGAGA	ACAGCATGTA	CATTATTAAT	180
CCCTGGGTAT ACC	CTTGAGAG AATGGGGATG	TATAAAATCA	TATTGAATCA	GACAGCCAGG	240
TATTTTGCAA AAT	TTTGCACC AGATAATGA	CAGAATATTT	TATGGGGGTT	GCCTCTGCAG	300
TATGGCTGGC AAT	PATAGGAC AGGCAGATTA	GCTGATCCAA	CCCGAAGGAC	AAACTGTGGC	360
TATGAATCTG GAG	GATCATAT GTGCATCTCT	GTGGACAGTT	GGTGGGCTGA	TTTGAATTAT	420
TTTCTGTCTT CAT	TTACCCTT TCTTGCTGCC	GTTGATTCTG	GTGTAATGGG	GATATCATCA	480
GACCAAGTCA GG	CTTTTGCC CCCACCCAAC	AATGAGAGGC	TCGAG		525

- (2) INFORMATION FOR SEQ ID NO:1353:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 286 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1353:

GAATTCGGCC	TTCATGGCCT	AGGCTCCTAA	AATAAATAAT	CCACATAATT	GTAAATGAAA	60
CACATCAAGG	ATTTGAGTTA	ATAGCCTCTG	AGCAGCATTA	ATATAGCCAT	TAGACTGGAG	120
TATTTGTTAT	CAAGAGGGCC	AGAGAACCCA	CCGCTAAAGC	CGTAGGGTGG	GAGGAACCCT	180
GGATTGCAGC	TACATGGCTT	ATGTAGGGAG	TTTGTAACAG	CCCCAAGCTG	AAACCAGCTT	240
CTACACCCAT	GACTGTTGAG	TGATTGAATT	CTAGACCTGC	CTCGAG		286

- (2) INFORMATION FOR SEQ ID NO:1354:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 572 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1354:

GAATTCGCGG	CCGCGTCGAC	CAACAAGAGC	ACTGGCCAAG	TCAGCTTCTT	CTGAGAGAGT	60
CTCTAGAAGA	CATGATGCTA	CACTCAGCTT	TGGGTCTCTG	CCTCTTACTC	GTCACAGTTT	120
CTTCCAACCT	TGCCATTGCA	ATAAAAAAGG	AAAAGAGGCC	TCCTCAGACA	CTCTCAAGAG	180
GATGGGGAGA	TGACATCACT	TGGGTACAAA	CTTATGAAGA	AGGTCTCTTT	TATGCTCAAA	240
	GCCATTAATG					300
TAAAGAAAGT	ATTTGCCCAA	AATGAAGAAA	TACAAGAAAT	GGCTCAGAAT	AAGTTCATCA	360
	TATGCATGAA					420
	GTTTGTAGAC					480
CTAACAGATT	GTACACATAT	GAGCCTCGGG	ATTTACCCCT	ATTGATAGAA	AACATGAAGA	540
AAGCATTAAG	ACTTATTCAG	TCAGAACTCG	AG			572

- (2) INFORMATION FOR SEQ ID NO:1355:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 269 base pairs
    - (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1355:

GAATTCGCGG CCGCGTCGAC TTTTCACTTG AAAAAAGTAA ACTATTTCAA CATTCTCATT ATGAGAAAACT CCTTTGCATT	AAATTTTTT TATGTGAAAG	CAAAAGCAAA CATGTGATAA	TAATTCAACT ATTGTTGCTG	CTAAAATTAT CGTCAGAGAT	60 120 180 240
GAAATAAAAG ATGCACCAGG		TATTCATAGA	CTTCTACATG	AAAGAGAAGA	240 269

- (2) INFORMATION FOR SEQ ID NO:1356:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 713 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1356:

${\tt GAATTCGCGG}$	CCGCGTCGAA	CCCAGCAAAA	TGGGGATCTC	CACAGTCATC	CTTGAAATGT	60
GTCTTTTATG	GGGACAAGTT	CTATCTACAG	GTGGGTGGAT	CCCAAGGACT	ACAGACTACG	120
CTTCACTGAT	TCCCTCGGAG	GTGCCCTTGG	ATACAACTGT	AGCAGAAGGT	TCTCCATTTC	180
CCTCGGAGTT	GACCCTGGAG	TCAACTGTAG	CAGAAGGTTC	TCCGATTTCC	TTGGAGTCAA	240
CCCTGGAGTC	AACTGTAGCA	GAAGGTTCTC	TGATTCCCTC	AGAGTCAACC	CTGGAGTCAA	300
CTGTAGCAGA	AGGATCTGAT	TCTGGTTTGG	CCCTGAGGCT	GGTGAATGGA	GATGGCAGGT	360
GTCAGGGCCG	AGTGGAGATC	CTATACCGAG	GCTCCTGGGG	CACCGTGTGT	GATGACAGCT	420
GGGACACCAA	TGATGCCAAC	GTGGTCTGTA	GGCAGCTGGG	TTGTGGCTGG	GCCATGTCAG	480
CTCCAGGAAA	TGCCTGGTTT	GGCCAGGGCT	CAGGACCCAT	TGCCCTGGAT	GATGTGCGCT	540
GCTCAGGACA	CGAATCCTAC	CTGTGGAGCT	GCCCCCACAA	TGGCTGGCTC	TCCCATAACT	600
GTGGCCATGG	TGAAGATGCT	GGTGTTATCT	GCTCAGCTGC	CCAGCCTCAG	TCAACACTCA	660
GGCCAGAAAG	TTGGCCTGTC	AGGATATCAC	CACCTGTACC	CACTAGACTC	GAG	713

- (2) INFORMATION FOR SEQ ID NO:1357:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 925 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1357:

GAATTCGGCC	AAAGAGGCCT	AGAATAATGC	ATATACTGCC	ATGTCAGATT	CCTACTTACC	60
CAGTTACTAC	AGTCCCTCCA	TTGGCTTCTC	CTATTCTTTG	GGTGAAGCTG	CTTGGTCTAC	120
GGGGGGTGAC	ACAGCCATGC	CCTACTTAAC	TTCTTATGGA	CAGCTGAGCA	ACGGAGAGCC	180
CCACTTCCTA	CCAGATGCAA	TGTTTGGGCA	ACCAGGAGCC	CTAGGTAGCA	CTCCATTTCT	240
TGGTCAGCAT	GGTTTTAATT	TCTTTCCCAG	TGGGATTGAC	TTCTCAGCAT	GGGGAAATAA	300
CAGTTCTCAG	GGACAGTCTA	CTCAGAGCTC	TGGATATAGT	AGCAATTATG	CTTATGCACC	360
TAGCTCCTTA	GGTGGAGCCA	TGATTGATGG	ACAGTCAGCT	TTTGCCAATG	AGACCCTCAA	420
TAAGGCTCCT	GGCATGAATA	CTATAGACCA	AGGGATGGCA	NCACTGAAGT	TGGGTAGCAC	480
AGAAGTTGCA	AGCAATGTTC	CAAAAGTTGT	AGGTTCTGCT	GTTGGTAGCG	GGTCCATTAC	540
TAGTAACATC	GTGGCTTCCA	ATAGTTTGCC	TCCAGCCACC	ATTGCTCCTC	CAAAACCAGC	600
ATCTTGGGCT	GATATTGCTA	GCAAGCCTGC	AAAACAGCAA	CCTAAACTGA	AGACCAAGAA	660
TGGCATTGCA	GGGTCAAGTC	TTCCGCCACC	CCCGATAAAG	CATAACATGG	ATATTGGAAC	720
			CCCCTCACAG			780
TCAGCCAACC	CAGGGGTCTC	CTCAGCCTGT	AGGTCAGCAG	GCTAACAATA	GCCCACCAGT	840
GGCTCAGGCA	TCAGTAGGGC	AACAGACACA	GCCATTGCCT	CCACCTCCAC	CACAGCCTGC	900
	GTCCAGCAAC					925

- (2) INFORMATION FOR SEQ ID NO:1358:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 172 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1358:

GAATTCGCGG	CCGCGTCGAC	AAATAAACCC	AGCAACTTCA	TTCATTTGCC	TTATGTTTAT	60
TGAGGGCCTG	CTAGTGCTGG	GCACTGTTCT	AGGCCCTGGG	AATTTATTAG	TGAGCAAAAC	120
AGCAAAATCT	CTGTCCTCAT	GGAGCTCACA	ATATAGTAGG	GAACGACTCG	AG	172

- (2) INFORMATION FOR SEQ ID NO:1359:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 770 base pairs

    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1359:

GAATTCGGCC	AAAGAGGCCT	AAGTCAGTGA	GGTGGAGTCC	GTTTTTGAGG	TCACGCGGCT	60
AGTAATTGGA	GCCTGGTTTA	GAACCAAGTC	AGTCTCATTC	CAGAATCCAG	AACCAGTGAT	120
TTGTAACTGA	TGCACTTGTC	TCCAAAGGGA	TCCAGCACTG	GGTTTTCTCA	TTTTTAATGC	180
ATCCATTCCT	TAAAGCCTCT	GTTCACAGTC	ACAAGGTGTA	CTTTTTAAAG	GAACACAGCA	240
CACAAATGTG	ACCGCTAGTG	GACAGCAGTG	GCAGCCCAGT	TGGATGGCAG	AGCCTGGCAT	300

GCCGACTGGG	ACAGAAGCCC	CAGCACACGG	TGTGATGATG	GCGTCTCCAG	GCTGACCTCC	360
ATGGCCTCAG	GAATCAAAGT	CCTCGGTCTC	TTTCACGCGG	GGTTCAGAAA	GAAAACTCGG	420
CTATCTTACA	TCTCCTCTCC	CCTGTTTATT	TGACTAAAGT	GAAGTTCATG	TGGCTTGAGC	480
CTCGTTTCCT	GGGGAAATCA	GCCTGGCTTA	GGATTCCATT	GTCTTCTGGG	ACTGGGAAGA	540
TGTGGAAGGC	TGACCTCACG	CCCAGCTGAA	GGTCACCTTC	CCAGACTCTG	AGCTCGGCTG	600
CCTTCTGCAT	CGCCACGGCT	GGAGGGCCTG	GCCCAGGCCG	TGGCTGCATG	CTGGCTTTCC	660
ACTGTCTCGG	TGTCCCTGCT	GCCTGTCAGT	AATGTGCCCA	GCACCTTCTG	GTGTCATGTC	720
CCCTCTTGTT	TGTGATTCTT	TTCCTGAGCT	AGTCCATTTT	CTACCTCGAG		770

- (2) INFORMATION FOR SEQ ID NO:1360:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 505 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1360:

GAATTCGGCC	AAAGAGGCCT	ACTCAGTGGA	AACCTTTAAA	CCCTAAAATC	CAGGAAAAGA	60
AAATAAATAC	ATTATCATGG	ACCTGAGGGA	TTTTTACCTG	TTGGCTGCTC	TGATTGCCTG	120
TTTAAGGCTG	GATTCCGCAA	TAGCTCAAGA	ACTTATTTAC	ACTATTAGAG	AGGAATTGCC	180
TGAAAATGTG	CCCATAGGAA	ACATACCAAA	GGATCTGAAC	ATTTCTCACA	TCAATGCTGC	240
CACAGGGACC	AGCGCCAGCC	TTGTCTACAG	ACTGGTTTCT	AAAGCTGGGG	ATGCCCCTTT	300
GGTGAAAGTA	TCCAGCAGCA	CTGGGGAAAT	TTTCACAACC	TCCAACAGAA	TAGACAGAGA	360
AAAACTCTGT	GCTGGCGCCT	CATATGCTGA	GGAGAATGAG	TGTTTCTTTG	AACTTGAGGT	420
GGTGATCCTC	CCCAATGATT	TCTTCAGGCT	GATCAAAATA	AAAATAATTG	TCAAGGATAC	480
CAATGATAAT	GCCCCCAATC	TCGAG				505

- (2) INFORMATION FOR SEQ ID NO:1361:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 553 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1361:

GAATTCGGCC A	AAGAGGCCT A	AAATTTGTTC	TCTCCAAACC	AGAAGACCTT	AGGTACAGAT	60
GACCCCAGGG AG	GCTGGGACA (	GCAGGACAGÀ	NAGGGGAAGG	GACAGGTCCA	TATATAGGTG	120
TGTCATTGCA G	CCACTGCAA :	TGAACATAAC	ATGCAAGAAA	TGTACAGAAT	GTGGTCCAGA	180
ATTGCCCACT G	GTGTCCTGT (	GCCCTGGTGG	ACCCCACAGA	GGACTGCCCC	AGGCTTTCAC	240
TTTCCTTCCC C	ATGGATTGA (	GCAAGCTCCC	AGGGCAGGAT	GGGTGGCCAG	GAGGGGCAGA	300
ACGCTGGCGG G	GACGGGGAA (	GCCAAGTGCT	CACAGGACCA	TCCACCACAG	CTGCAGCCAC	360
ACTGCAAGAC G	GCGGGGATG (	GGACACACGG	TCTAGTTCTT	AGTTCTGCCT	CCTACAGGCA	420
GCCCCTGCTG T	CACTCCAGA A	ACTAATTCTC	TGTGTGCCAC	TCACTCGCGT	GTGTGACACA	480
CAACAGATAC A	CATACATAG A	ACACATACGT	ACATCTCCTC	CCCCAATCTC	ACCCTCTCAC	540
CACGCCCCTC G	AG					553

- (2) INFORMATION FOR SEQ ID NO:1362:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 855 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1362:

GAATTCGGCC	AAAGAAGCCT	AGTCAACTTG	ATCCAAACCT	GTTGGTGAAG	CAGCAGACTC	60
${\tt CACCATCTCA}$	GCAGCAGCCA	CTCCATCAGC	CAGCCATGAA	GTCTTTCCTT	GACAATGTCA	120
TGCCCCACAC	TACACCTGAG	CTGCAAAAAG	GGCCATCACC	AATAAATGCT	TTCAGCAACT	180
TCCCTATAGG	CTTGAACTCA	AACTTGAATG	TAAATATGGA	TATGAACAGT	ATTAAAGAGC	240
CACAGTCCAG	ACTAAGGAAG	TGGACGACAG	TGGACAGCAT	TTCTGTGAAC	ACATCTTTGG	300
ATCAAAACTC	CAGCAAACAT	GGTGCTATTT	CAAGTGGTTT	CAGGCTGGAA	GAGTCTCCAT	360
TTGTNCCCTA	TGACTTTATG	AACAGCAGTA	CTTCACCAGC	CAGTCCTCCA	GGTTCAATAG	420
GAGATGGCTG	GCCACGTGCC	AAATCGCCTA	ACGGCTCTAG	CAGTGTTAAT	TGGCCACCAG	480
AATTTCGTCC	CTGGTGAGCC	ATGGAAAGGT	TATCCAAACA	${\tt TTGACCCTGA}$	AACTGACCCT	540
TACGTCACTC	CTGGCAGTGT	CATAAACAAT	CTTTCAATTA	ATACTGTGCG	GGAAGTTGAC	600
CACCTCAGGG	ACAGGAACAG	TGGGTCATCC	TCATCCTTGA	ACACCACGCT	GCCTTCAACT	660
AGTGCCTGGT	CATCCATTCG	TGCCTCCAAC	TACAACGTTC	CCCTCAGCAG	TACAGCACAA	720
AGCACTTCAG	CCAGAAATAG	TGATTCCAAA	TTGACATGGT	CTCCTGGTTC	AGTTACAAAC	780
ACCTCTCTGG	CTCATGAGCT	GTGGAAGGTC	CCTTTGCCAC	CTAAAAACAT	CACTGCTCCG	840
TCCCGCCACC	TCGAG					855

- (2) INFORMATION FOR SEQ ID NO:1363:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 646 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1363:

GAATTCGGCC AAAGAGGCCT A	ACAAAAAGTA	CATAGTAAGA	CTAAGATACC	AAGTTGTATA	60
CTAATATTTT TCAGGCCTTG G	GCCTCAAAT	TTTATATATA	ATATATATA	CTCCAGTGTG	120
AACAGCAATT CGATGAAATG I	TAAAATGTAT	CTTTTTTTT	TTAAATCACA	CACAAGTATT	180
CATAACCACA GGGTTCACCA G	GAAATCTAAA	GCAAGGAGAC	ACTCACTCAT	ATAGAAATGG	240
AGTTACTCTT CCACAGATCG T	FTCTGATCAA	AGGTTTTGGA	ACAGAAATGA	ATTAATGATT	300
TTTTTGTATA ATATCCAACA T	TGTCCACTAT	CAAATACATT	TAGTATGAAA	AAACAGATGA	360
AGAAAAGGAA CATACATTAG G	GACAAAGTAT	CTGGTTAAAA	TGCTGTTCAT	TTAAATAAAG	420
CCCACTCTCC TTACTTTAGA C	CTCCTTGGT	GAAATGGAGG	TGAGTTTGAT	GGAGTGCAGT	480
TGATGACCAC TGAAAAACAC	SAGCCCTTTC	AACAATGTTG	CAACACTGTT	AGTTTTTGGT	540
TTAAACACAC ACACACACTC A	ACAAATGCTA	AGTGTACACT	ACCAAATTCT	GCGGTCAGCT	600
TTTCCAAGAA CTACTGGGGA A	AAGTTTCAAT	GCTGCAAATC	CTCGAG		646

- (2) INFORMATION FOR SEQ ID NO:1364:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 502 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1364:

GTAAACCATC AGTACAATAA TACGCTGTGT ATGTATGTGT ATATAAAATG AGAATTATGG CATAATTGGA GCATTTGCAT TAATCAACAA ACTCACATTG AGACAAAACT TAGTTTTACA GCTGTCTTGA TTAAAGCCAA GTGTTCCATG TTGCTGTGAA GAATAGCCTC TTTCAAATAC TTTGGAAAGT AGTTACTTGG AAACTTGTAA AGGTATTACA TTTTTATATT TAAACACCTA TAGAGATCTT CAATTCCTTG AGTCTGAGCT TGTGGGTGGA ATTCTAAATT TGTATCATAA TCTGTCTTTT GTGAAACATT TTGAAAATAT GTATATATAA TATTGTATAT GCAAATTGTG TTGTTTCACT TGTAAAGGGA AAAGGCTTAT TTTTCTTTAT ATTTCTGATA ACTTGTTTTG CATATGACCG GCACTTCTCG AG	120 180 240 300 360 420 480 502
(2) INFORMATION FOR SEQ ID NO:1365:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 197 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1365:	
GAATTCGGCC TTCATGGCCT ACAGAAGTAC GGGAAGGCGA AGAAAAGAAT AGAGAAGATA GGGAAATTAG AAGATAAAAA CATACTTTTA GAAGAAAAAA GATAAATTTA AACCTGAAAA GTAGGAAGCA GAAGAAAAAA GACAAGCTAG GAAACAAAAA GCTAAGGGCA TCGATTGAAT TCTAGACCTG CCTCGAG	60 120 180 197
(2) INFORMATION FOR SEQ ID NO:1366:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 314 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1366:	
GAATTCGGCC TTCATGGCCT AGGCCTGGGG TGGGACATTT TGTTTGTGAG AAGCCTGGAC AAGAGGACGA GGTGCACACC ATGTCAGTCA CGGATTTGTG AACTCACAGG AGAGGGTTGG ATAGGGCGTG TGAACGTGAG CCCGCGGTT AGACGATGTG AAGCTGTGGT AACGGGTGG CTTGTGATGG CACCCGCTGC TCGCAGGAGA GGGTTGGATA GGGCATGTGA ACGTGAGCCT GCAATGTAGA CGATGCGAAG TCGTGGTAAC GGGTGGGCTT GTGACGGCAC CCGCTGCTTG CAGCCTAACT CGAG	60 120 180 240 300 314
(2) INFORMATION FOR SEQ ID NO:1367:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 250 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1367:	
GAATTCGGCC TTCATGGCCT ACTGGTCCCA TTTTTCTATT GCAGTGGTCA TCATTTTTAT TGATGTATAA TAATATTGTA TCATAAATCT TCATAATATG TGCTTCCAAA GTTTTTTCTA	60 120

(2) INFORMATION FOR SEQ ID NO:1368:  (i) SEQUENCE CHARACTERISTICS:
(i) SEQUENCE CHARACTERISTICS:
<ul><li>(A) LENGTH: 261 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1368:
GAATTCGGCC TTCATGGCCT AGTGAGAGCA CCACACAAAG GACAGGAAAA ACACCAGCAA 60 TACATCAGCT TTACACAGCA GGCAAGTTTC CTGCTCTTA CAAGTACAGA TGGAACTTGT 120 CTTGTGAATT AACATCCTGA CTACTTTTGT TGATCATCAC ATTTTTTCCT CATGAGAGAA 180 ATAATAGTGT TTTATAGGCT CCTGAGAATA GGTTTACTAA AGTCATCGAG ATCTGGGTTC 240 AAATGACACT TCATGCTCGA G 261
(2) INFORMATION FOR SEQ ID NO:1369:
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 408 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1369:
GAATTCGGCC TTCATGGCCT AGTTTTGTT TGTTTGTTTG TTTGTTTTTT GGCAAGAACA 60 GTTAGGAACC AGATCACAGT GAGGTATAGA GTGAATGAGA GTTGAGAATG TAAAACAGTT 120 GGATATAGAT CACTATTTCA GGAAGCTGTT TGTGAGAGGG AGGAAAAA TAAAACAGTT 180 ACTGAGCAAT AGGGTGGTG GTAAGGGGG GGGATTTTTT TCTGAAAGAT GGGAGAAATT 240 TTAACATACT TAAATTTGAT GGGATAAGCC ATGCACTTAT AGGCATTCAG TCAATATATA 300 TTTCACAAAT GAATGAAGAT AAATTAGGGA GAGGTTAATT GGAGATTTTA GGAGAGAGGG 360 AATAATTGAT CATGTAAAGT CATTGATAAG GTGGAGCAG AACTCGAG 408
(2) INFORMATION FOR SEQ ID NO:1370:
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 369 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: cDNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1370:
GAATTCGGCC TTCATGGCCT ACTCGATTAC AGGTCTCCCG CCTGCCATGC AGAAAGTCAT 60 GTATAAGGGA CTCGTCCCCG AGGATAAAAC ATTGACAGAA ATAAAAAGTGA CCACTGGGGC 120 CAAGATCATG GTGGTTGGCT CCACCATCAA TGATGTTTTA GCAGTAAACA CACCCAAAGA 180 TGCTGCGCAG CAGGATGCAA AGGCCGAAGA GAACAAGAAG GAGCCTCTCT GCAGGCAGAA ACACAACAGG AAAGTGTTG ATAAAGGAAA ACCTGAAGAT GTGATGCCAT CTGTTAAGGG 300

AGTCTCGAG  (2) INFORMATION FOR SEQ ID NO:1371:  (i) SEQUENCE CHARACTERISTICS:	GGCCCAGGAG CGCCTGCCAA CGGTACCGCT GTCCGGCATG TACAATAAAT CTGGAGGAAA 36
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 443 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: CDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:  GAATTCGGCC AAAGAGGCCT ATTITTTTTT TTTTTAACTG ATAGATGGTG CAGCATGTCT ACATGGGTTG TTGTTGCTAA ACTITATATA ATGTGTGGTT TCAATTCAGC TTGAAAAATA ATGTGGGTTG TAGATGCAG ACATTATATA ATGTGTGGTT TCAATTCAGC TTGAAAAATA ATGTGATGTG	AGTCTCGAG 36
(A) LENGTH: 443 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:  GAATTCGGCC AAAGAGGCCT ATTTTTTTT TTTTTAACTG ATAGATGGTG CAGCATGTCT ACATGGTTGT TTGTTGCTAA ACTTTATATA ATGTGTGGTT TCAATTCAGC TTGAAAAATA ATCTCACTAC ATGTAGCAGT ACATTATATG TACATTATATA TGTAATGTTAG TATTTCTGCT TTGAATCATT TTTTTGCAT TGAAAATTCAA CATTTATATA ATGTGTTGGT TGTAATGTAGT TATTTCTGCT TATTGAACATCT AACTTTATATA ATGTATTGTG GAGTTTCTTTT ACAACAAGCC TCTAGAAACA GATAGTTTCT GAGAATTCTA CATTTATTAA ATGTATTGTG GCTTTCTTTT ACAACAAGCC TCTAGAAACA GATAGTTTCT GAGAATTACT AGGATTATAT TGTAATGTAG ATGTATTTTA AAATAACTA TTTTAGATACA AGGAATAGAA GAAATAGAAT TTTAAAAATT AATGTATTTAA AAATAACTA TTTAACAAAA GAAATAGATA TTTAAAATTT AAATACTAACT ATGGGATCTC GAG  (2) INFORMATION FOR SEQ ID NO:1372:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 770 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:  GAATTCGGCC AAAGAGGCCT ACTTCCGGCT GAGCTCTCC CCAGCACCA 1 CCTACAGCCT CCACCAGGAG GGCCTGGAAC CCTCAGCCTC CCCAGCACCA 2 AGCCAACTCA CCACCAGGA GGCCTGGAAC CCTCAGCCTC CACCTCCCC 3 AGGCCAACTCA CCACCAGGAG GCCCTGGAAC CCTCAGCCCG GAAGCCCCA CCACCAGACACA AGCTCACCCC CACCCACCACA CCTTCACCCC CACCCACC	(2) INFORMATION FOR SEQ ID NO:1371:
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:  GAATTCGGCC AAAGAGGCCT ATTTTTTTT TTTTTAACTG ATAGATGGTG CAGCATGTCT ACATGGTTGT TTGTTGCTAA ACTTTAATA ATGTGTGGTT TCAATTCAGC TTGAAAAATA ATCTCACTAC ATGTAGCAGT ACATTATATG TACATTATAT GTAATGTTAG TATTTCTCCT TTGAATCCTT GATATTGCAA TGGAATCCT ACTTTATATA ATGTATTTGA TATGCTAGTT ATTTCTGCT TTGAATCCTT GATATTGCAA TGGAATCCT ACTTTATATA ATGTATTTGA TATGCTAGTT ATTGTGTGCG ATTTAACAT TTTTTGCTTT CTCCCTNTTT TTGGTTGTGC GCTTTCTTTT ACAACAAGCC TCTAGAAACA GATAGTTTCT GAGAATTACT GAGCTATGTT TGTAATGCAG ATGTACTTAG GAGTATGTA AAATAATCAT TTTAACAAAA GAAATAGATA TTTAAAATTT 4AATACTAACT ATGGGATCTC GAG  (2) INFORMATION FOR SEQ ID NO:1372:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 770 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:  GAATTCGGCC AAAGAGGCCT ACTTCCGGCT GGAGCTCCTG GGCCGGGAC CTGGGGCGGT TAATTTGGAG TGGCCCTGA AGCACATC CACCAGGAA AGCATGCCAGAA AGCATCCAC CCACCAGCAC GAGCACCAT GAGCACCAT CCACCAGCAC TGGGCCCCAACCAGA AGCACACTAC CCACCAGCAC TGGGCCCCAACCAGA AGCATCACCAC CCACCACCCT TGGGCCCAGA AGCATGCCCC GAGCACCAA AGCATCACCAC CCACCACCT TGGGCCCAGA AGCATCACCAC CACCACCTC TGGGCCCAGA AGCATCCCCC GAAGACCAAA ATGGCCACAAC ACCCTCAACCAC CACCACCCT TGGGCCCAGA AGCATGCCCC GAAGACAAAA ATGCCACCAAC ACCCTCAACCACC CACCACCT TGGGCCCAGA AGCATGCCCC GAAGACAAAA ATGCCACCACCT GAGAGCACAAA ATGCCACCACCT GAGAGCACAAA ATGCCACCACCT GAGACCACCT CACCACCT GAGACACAAA ATGCCACCACCT GAGACACAAA ATGCCACCACCT GAGACACAAA ATGCCACCACCACCACCACCACCACCACCACCACCACCACCA	(A) LENGTH: 443 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double
GAATTCGGCC AAAGAGGCCT ATTTTTTTT TTTTTAACTG ATAGATGGTG CAGCATGTCT ACATGGTTCT TIGTTGCTAA ACTTTATATA ATGTGTGGTT TCAATTCAGC TTGAAAAATA 1 ATCTCACTAC ATGTAGCAGT ACATTATATG TACATTATAT GTAATGTTAG TATTCTGCT 1 TTGAATCCTT GATATTGCAA TGGAATTCCT ACTTTATTAA ATGTATTTCA TATTCTTAGTT TTTGAATCCTT GATATTGCAA TGGAATTCCT ACTTTATTAA ATGTATTTCA TATTCTTGGTT ACAACAAGCC TCTAGAAACA GATAGTTTCT GAGAATTACT GAGCTATGTT TGTAATGCAG ATGTACTTAG GAGGTATGTA AAATAATCAT TTTAACAAAA GAAATAGATA TTTAAAATTT 4 AATACTAACT ATGGGATCTC GAG  (2) INFORMATION FOR SEQ ID NO:1372:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 770 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:  GAATTCGGCC AAAGAGGCCT ACTTCCGGCT GGAGCTGCTG GGCGCGGGAC CCCAGCAGA GCTACAGCCT CCACCAGGAG GGCCTGGAAC CCTCAGCCTG CACTTCCTCA ACCCTCAGGA AGCCTACAGGCT CCACCAGGAG GCCTGCACCTG GAGCACCAA ATGGCAGCAA 2GAGCACAA ATGGCAGCAA 2GAGCACAA ATGGCAGCAA 2GAGCACAA ATGGCAGCAA 2GAGCACCAA CCACCAGGAG GCCTCACCCTG GAAGCACAA ATGGCAGCAA 2GAGCACCAA CCACCAGGAG GCCTCCACCCTG GAAGCACCAA ATGGCAGCAA 2GAGCACCAA CCACCAGGAA CCCTCAGGAC TCTCCCCC GCAACCACC CCCAGCACAA 2GAGCACCAA ATGGCAGCAA 2GAGCACCAA ATGGCAGCAA 2GAGCACCAA ATGGCAGCAA 2GAGCACCAA ATGGCAGCAA 2GAGCACCAA ATGGCAGCAA 2GAGCACCAA CCACCACGCCT TGGGCCCCCC TGAGGCCCCC GCTCTCCCC GCACCACCCC GCAAGCACCAA ATGGCAGCAAA 2GACACAAA ATGGCAGCAAA 2GAAGCACCAA ATGGCAGCAAA 2GACCACCCCCC TGAGCCCCC TGAGCCCCC GCATCCCCC GCAACCCCCC CCAGCCACCC CCAGCACAC CCTCAGCCCC CCTGACCCCC GCAACCCCCC CCACCTCACC TGAGCCCCC CCAGCCCCCC CCTGCCCCC GCTCCCCC TGAGCCCCC CCTGCCCCC GCTCCTCCCC TGAGCCCCC CTGAGCCCC TTATTCCAG GCCTGAACAC TTGAAGACCA ACCCCTCCACC TGACGCCCC CACCTGCCCC CA	(ii) MOLECULE TYPE: cDNA
ACATGGTTGT TTGTTGCTAA ACTTTATATA ATGTTGGTT TCAATTCAGC TTGAAAAATA ATCTCACTAC ATGTAGCAGT ACATTATATG TACATTATAT GTAATGTTAG TATTTTCTGCT TTGAATCCTT GATATTGCAA TGGAATTCCT ACTTTATTAA ATGTATTGA TATTTCTGCT TTGAATCCTT GATATTGCAA TGGAATTCCT ACTTTATTAA ATGTATTTGA TATGCTAGTT ACAACAAGCC TCTAGAAACA GATAGTTCT GAGAATTACT TTGGTTGTGC GCTTTCTTT ACAACAAGCC TCTAGAAACA GATAGTTCT GAGAATTACT GAGCTATGTT TGTAATGCAG ATGTACTTAG GGAGTATGTA AAATAATCAT TTTAACAAAA GAAATAGATA TTTAAAATTT AATACTAACT ATGGGATCTC GAG  (2) INFORMATION FOR SEQ ID NO:1372:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 770 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:  GAATTCGGCC AAAGAGGCCT ACTTCCGGCT GGAGCTGCTG GGCGCGGGAC CTGGGGCGGT TAATTTGGAG TGGCCCCTGG AGTCAGTTTC CTACACCATC CGAGGCCCCA CCCAGCACGA AGCTTCAGGCT CCACCAGGAG GGCCTGGAAC CTCCAGCAC CACCTCCAGGA AGCTCAGCCT CACCACGAG AGCACCAC CACCACGAG TGGCCCCA CCCAGCACGA AGCTCAGGCT CACCACCAGG GGCCCCA CCCAGCACGA AGCTCAGCCT CACCACAGGA GGCCCCCA CCCAGCACGA AGCTCAGCCT CACCACAGGA GCCCTCCAC CTGAGCACC TGGGCCCA CCCAGCACCA CTCAGCACCA CACCACAGG CCCCCAGGAAC CTCCAGCACCA CTCAGCAC CACCACAGCA AGCTCCACC TGGGCCCA CCCAGCACCA CTCAGCAC CACCACAGCA AGCACCACCA CTCAGCAC CTCAGACC CACCTCACC CACCTCCCC CACCTCCC C	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:
(A) LENGTH: 770 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:  GAATTCGGCC AAAGAGGCCT ACTTCCGGCT GGAGCTGCTG GGCGCGGGAC CTGGGGCGGT  TAATTTGGAG TGGCCCTGG AGTCAGTTTC CTACACCATC CGAGGCCCCA CCCAGCACGA  GCTACAGCCT CCACCAGGAG GGCCTGGAAC CCTCAGCCTG CACTTCCTCA ACCCTCAGGA  AGCTCAGCGG TGGGCAGTCC TAGTCCGAGG TGCCACCGTG GAAGGACAGA ATGGCAGCAA  GAGCAACTCA CCACCAGCCT TGGGCCCAGA AGCATGCCCT GTCTCCCTGC CCAGTCCCCC  GGAAGCCTCC ACACTCAAGG GCCCTCCACC TGAGGCAGAT CTTCCTAGGA GCCCTGGAAA  CTTCACGGAG AGAGAAGAC TGGCAGGGAG CCTGGCCCGG GCTATTGCAG GTGAGACGA  CATCAGGAG GCCCCAAGTGG CACCTCCTC GCCCAGCCAC TGAGTCCCC TGAGGGGAGACGA TTGAGTGCCC TGACTCTCCC CACCTGGCCC CATCAGGCT CACCTGACAC TTGAAGACGC  TGCCTCTGCC GCATCCGCCG CGTCCTCTC CACCTGGCCC CAGCCACTT TTGAAGACGC  TGCCTTGCC GCATCCGCCG CGTCCTCTCC CACCTGCCC CTGCAGGTCC ACCCCCACTG  CACTGTTGCA GCTCTCCAGG AGCAGTGTT CTCAGAGCTC GGTTTCCCGC CAGCCGTCCA  ACGCTGGGTC ATCGGACGT GCCTGTTTC CTCAGAGCTC GGTTTCCCGC CAGCCGTGCA  ACGCTGGGTC ATCGGACGT GCCTGTTTC CTCAGAGCTC GGTTTCCCGC CAGCCGTGCA  ACGCTGGGTC ATCGGACGGT GCCTGTTTC CTCAGAGCTC GGTTTCCCGC CAGCCGTGCA  ACGCTGGGTC ATCGGACGGT GCCTGTGTTT CTCAGAGCTC GGTTTCCCGC CAGCCGTGCA  ACGCTGGGTC ATCGGACGGT GCCTGTGTTT CTCAGAGCTC GTTTTCCCGC CAGCCGTGCA  ACGCTGGGTC ATCGGACGGT GCCTGTGTTT CTCAGAGCTC GTTTTCCGC CAGCCGTGCA  ACGCTGGGTC ATCGGACGGT GCCTGTGTTT CTCAGAGCTC GTTTCCCGC CAGCCGTGCA  ACGCTGGGTC ATCGGACGGT GCCTTGTTTC CTCAGAGCTC CTTTACGGGGT  CTTACGGGGTC ATCGGACGAC GCCTTGTTTCCGC CAGCCGTGCA  ACGCTGGGTC ATCGGACGAC GCCTTGTTCC CTTTACGGGGT  CTTACGGGGTC ATCGGACGAC GCCTTGCCC CTTTACGGGGT  CTTACGGGGTC ATCGGACGAC ATCGGACGAC ATCGAGCCC CAGCCGTGCA  ACGCTGGGTC ATCGGACGAC GCCTGGCCC CAGCCGTGCA  ACGCTGGGTC ATCGGACGAC ATCGAGCCC CAGCCGTGCA  ACGCTGGGTC ATCGGACGAC ATCGGACCAC TTTACGGGGT  CTTACGGGGTC ATCGGCACAC GGCTGTGCC CTTACGGCACC CTTACGCCACTGCAC  CTTACGGGGTC ATCGGCACACAC TTCAGACCCC CAGCCGTCAC  ACGCTGGGTC ATCGGCACACAC TTCAGCCC CAGCCGTCCAC  ACCCTGGCACACACCTACCCCACAC TTCAGCCC CAGCCTGCAC  CTCATCTTCAGGACGAC ACCCTTCTCCA	ACATGGTTGT TTGTTGCTAA ACTTTATATA ATGTGTGGTT TCAATTCAGC TTGAAAAATA ATCTCACTAC ATGTAGCAGT ACATTATATG TACATTATAT GTAATGTTAG TATTTCTGCT TTGAATCCTT GATATTGCAA TGGAATTCCT ACTTTATTAA ATGTATTTGA TATGCTAGTT ACTGTGTGCG ATTTAAACTT TTTTTGCTTT CTCCCTNTTT TTGGTTGTGC GCTTTCTTTT ACAACAAGCC TCTAGAAACA GATAGTTTCT GAGAATTACT GAGCTATGTT TGTAATGCAG ATGTACTTAG GGAGTATGTA AAATAATCAT TTTAACAAAA GAAATAGATA TTTAAAAATTT AAAAACTAACT ATGGGATCTC GAG  441
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:  GAATTCGGCC AAAGAGGCCT ACTTCCGGCT GGAGCTGCTG GGCGCGGGAC CTGGGGCGGT TAATTTGGAG TGGCCCTGG AGTCAGTTTC CTACACCATC CGAGGCCCCA CCCAGCACGA GCTACAGCCT CCACCAGGAG GGCCTGGAAC CCTCAGCCTG CACTTCCTCA ACCCTCAGGA AGCTCAGCGG TGGGCAGTCC TAGTCCGAGG TGCCACCGTG GAAGGACAGA ATGGCAGCAA GAGCAACTCA CCACCAGCCT TGGGCCCAGA AGCATGCCCT GTCTCCCTGC CCAGTCCCCC GGAAGCCTCC ACACTCAAGG GCCCTCCACC TGAGGCAGAT CTTCCTAGGA GCCCTGGAAA CTTGACGGAG AGAGAAGAGC TGGCAGGAGGAG CCTGGCCCGG GCTATTGCAG GTGGAAGACGA GAAGGGGGCA GCCCAAGTGG CAGCCTCCT GGCCCAGCAT CGTGTGCCC TGAGTGTTCA GACTCAGGAG GCCTGCTCC CACCTGGCCC CATCAGGCTG CAGGTCACAC TTGAAGACGC TGCCTCTGCC GCATCCGCCG CGTCCTCTG ACACGTTGCC CTGCAGGTC ACCCCCACTG CACTGTTGCA GCTCTCCAGG AGCAGTGTT CTCAGAGCTC GTTTCCCGC CAGCCCTGCA ACGCTGGGTC ATCGGACGT GCCTGTGTT CTCAGAGCTC GTTTCCCGC CAGCCCTGCA ACGCTGGGTC ATCGGACGT GCCTGTGTT CTCAGAGCTC GTTTCCCGC CAGCCGTGCA ACGCTGGGTC ATCGGACGT GCCTTGTGT GCCTTGAGGCT CTTACGGGGT	<ul><li>(A) LENGTH: 770 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>
GAATTCGGCC AAAGAGGCCT ACTTCCGGCT GGAGCTGCTG GGCGCGGGAC CTGGGGCGGT TAATTTGGAG TGGCCCTGG AGTCAGTTTC CTACACCATC CGAGGCCCCA CCCAGCACGA 1 GCTACAGCCT CCACCAGGAG GGCCTGGAAC CTCAGCCTG CACTTCCTCA ACCCTCAGGA 1 AGCTCAGCGG TGGGCAGTCC TAGTCCGAGG TGCCACCCTG GAAGGACAGA ATGGCAGCAA 2 GAGCAACTCA CCACCAGCCT TGGGCCCAGA AGCATGCCCT GTCTCCCTGC CCAGTCCCCC 3 GGAAGCCTCC ACACTCAAGG GCCCTCCACC TGAGGCAGAT CTTCCTAGGA GCCCTGGAAA 3 CTTGACGGAG AGAGAAGAC TGGCAGGAG CCTGGCCCG GCTATTGCAG GTGGAGACGA 4 GAAGGGGGCA GCCCAAGTGG CAGCCTCCT GGCCCAGCAT CGTGTGGCC TGAGTGTTCA 4 GCTTCAGGAG GCCTGCTTCC CACCTGGCCC CATCAGCCT CAGCTCACC TGAGACAC TTGAAGACGC 5 TGCCTCTGCC GCATCCGCCG GCTCCTCTC CACCTGGCCC CATCAGCTC CAGCTCACC TGAGACAC TCGCTTGCC ACCCCCACTG CACCTGTTCCA CACCTCTCCAC CTGAGGCCC CTGCAGCTC CACCCCCACTG CACCTTTTCAA GCCCCCACTG ACACCTTTTCCAG GCTCTCCCAC TCAGCTCC CTGCAGGTCC ACCCCCCACTG CACCTTTTCCAG GCTCTCCAGC TCAGCTCC CTGCAGGTCC ACCCCCCACTG CACCTTGTTCCA CACCTCTCAGC CAGCCTGCA ACCCCCCACTG ACCCCCCACTG ACCCCTGCAGCTC ACCCCCACTG ACCCCCACTG ACCCCCACTG ACCCCCACTG ACCCCCCACTG ACCCCCACTG ACCCCCCACTG ACCCCCACTG ACCCCCCACTG ACCCCCCCCCC	(ii) MOLECULE TYPE: cDNA
TAATTTGGAG TGGCCCTGG AGTCAGTTTC CTACACCATC CGAGGCCCCA CCCAGCACGA  GCTACAGCCT CCACCAGGAG GGCCTGGAAC CCTCAGCCTG CACTTCCTCA ACCCTCAGGA  AGCTCAGCGG TGGGCAGTCC TAGTCCGAGG TGCCACCGTG GAAGGACAGA ATGGCAGCAA  GAGCAACTCA CCACCAGCCT TGGGCCCAGA AGCATGCCCT GTCTCCCTGC CCAGTCCCCC  GGAAGCCTCC ACACTCAAGG GCCCTCCACC TGAGGCAGAT CTTCCTAGGA GCCCTGGAAA  CTTGACGGAG AGAAGAGAC TGGCAGGGAG CCTGGCCCGG GCTATTCACG GTGGAGACGA  GAAGGGGGA GCCCAAGTGG CAGCCGTCCT GGCCCAGCAT CGTGTGGCCC TGAGTGTTCA  GCTTCAGGAG GCCTGCTTCC CACCTGGCCC CATCAGGCTG CAGGTCACAC TTGAAGACGC  TGCCTCTGCC GCATCCGCCG CGTCCTCTG ACACGTTGCC CTGCAGGTC ACCCCCACTG  CACTGTTGCA GCTCCCAGG AGCAGTGTT CTCAGAGCTC GTTTCCCGC CAGCCCGTGCA  ACGCTGGGTC ATCGGACGGT GCCTGTTGTC CTCAGAGCTC CTTACGGGGT  ACGCTGGGTC ATCGGACGGT GCCTGTTGTC CTCAGAGCTC CTTACGGGGT  ACGCTGGGTC ATCGGACGGT GCCTGTTGTC CTCAGAGCTC CTTACGGGGT  TCCATGGGGTC ATCGGACGGT GCCTGTGTGT CTCAGAGCTC CTTACGGGGT  ACGCTGGGTC ATCGGACGGT GCCTGTGTGT CTCAGAGCTC CTTACGGGGT  ACGCTGGGTC ATCGGACGGT GCCTGTGTGT CTCAGAGCTC CTTACGGGGT  ACGCTGGGTC ATCGGACGT GCCTGTGTGT CTCAGAGCTC CTTACGGGGT  ACGCTGGGTC ATCGGACGC GCCTGTGTGT CTCAGAGCTC CTTACGGGGT  ACGCTGGGTC ATCGGACGC AGCCTTGCC CTTACGGGGT  ACGCTGGTC ACCCTAGCC ACCCTAGCCC ACCCTAGCCC CTTACAGCT  ACGCTGGGTC ACCCTAGCC	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:
MARGARIA CONTRACTOR COMPACTOR COMPAC	TAATTTGGAG TGGCCCTGG AGTCAGTTTC CTACACCATC CGAGGCCCCA CCCAGCACGA GCTACAGCCT CCACCAGGAG GGCCTGGAAC CCTCAGCCTG CACTTCCTCA ACCCTCAGGA AGCTCAGCGG TGGGCAGTCC TAGTCCGAGG TGCCACCGTG GAAGGACAGA ATGGCAGCAA AGCAACTCA CCACCAGCCT TGGGCCCAGA AGCATGCCCT GTCTCCCTGC CCAGTCCCCC GGAGCCACCC ACACTCAAGG GCCCTCCACC TGAGGCAGAT CTTCCTAGGA GCCCTGGAAA 360 CTTGACGGAG AGAGAAGAGC TGGCAGGGAG CCTTGGCCCGG GCTATTGCAG GTGGAGACGA GAAGGGGGA GCCCAAGTGG CAGCCGTCCT GGCCCAGCAT CGTGTGGCCC TGAGTGTTCA GCTTCAGGAG GCCTGCTTCC CACCTGGCCC CATCAGGCTG CAGGTCACAC TTGAAGACGC TGCCTCTGCC GCATCCGCCG CGTCCTCTGC ACACGTTGCC CAGCCTGCACG ACGCTTGCAG GCCTGCTCC CACCTGGCCC CATCAGGCTC CTGCAGGTC ACCCCCACTG CACTGTTGCA GCTCTCCAGG AGCAGTGTT CTCAGAGCTC GGTTTCCCGC CAGCCGTGCA ACGCTGGGTC ATCGGAGGTC ACCCCCACTG 660 ACGCTGGGTC ATCGGAGGTC ACCCCCACTG CGCCTGGCCC CAGCCGTGCA ACGCTGGGTC ATCGGAGGTC ACCCCCACTG CGCCTGGCCC CAGCCGTGCA ACGCTGGGTC ATCGGAGGTC CTTACGGGGT CTTACGGGT CTTACGGGGT CTTACGGGGT CTTACGGGGT CTTACGGGGT CTTACGGGT CTTACGGGT CTTACGGGGT CTTACGGGGT CTTACGGGGT CTTACGGCT CTTACGGGGT CTTACGGGT CTTACGGGGT CTTACGCC CTTACGCC CTTACGCC CTTACGCC CTTACGCC CTTACGGGT CTTACGCC CTTACGC CTTACGCC CTTACACAC CTTACACACT CTTACGCC CTTACACAC CTTACACACACACACACACACACACAC
TCGGCAGGAT GGGGACCCTG CTTTCCTCTA CTTGCTGTCA GCTCCTCGAG 7	TCGGCAGGAT GGGGACCCTG CTTTCCTCTA CTTGCTGTCA GCTCCTCGAG 779

- (2) INFORMATION FOR SEQ ID NO:1373:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 597 base pairs
      (B) TYPE: nucleic acid
      (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1373:

GAATTCGGCC	AAAGAGGCCT	AGTCTCTTTG	AAGATCTCTA	GGAACTTGCT	TTATGAATCT	60
TCATGCTCCT	GTGTTGGATG	CATATACATT	TAGGATAGTT	AGGTGTTCTT	TTTGAATTGA	120
AACTTTTACC	ATTATGTAAT	GCCCTTGTTT	GTCTTTTAAA	ATTTTTGTTG	GTTTAATATC	180
TGTTTTGTCT	AAAATTAGAA	TTTCAGCCTC	TGCTTTTTTT	CTGTTTTCCA	TTTGCTTAAT	240
AAATTTTTCT	TCATTCCCTT	ATTTTTAGCC	TATGGGTGTC	ATTGGATGTG	AGATTCATCT	300
CTTGAACACT	GTACTACTGG	TTCTTGCTTT	TTTACTCAGC	TTGTCACTCT	GTGTCTTTCA	360
ATTGGGCATT	CAAGGCTAGT	GTTGATATGT	GTGAATTTGT	TTCTGTCATC	ATGTTATTAG	420
TTGTTTATTA	TGCTGACTTG	TTTGTGTGGT	TTCNTTATAG	TGTTACTGGT	CTGTGCACTT	480
AAGTGTGTTT	TTTTAGTAGC	AATATTTTCT	TTTCATATGT	AGTGCTTTAT	GCGAGGTATT	540
TTGCAAGGAT	TTTCTGAATN	NTCNGAATTT	TTATGTGGGC	TAAACTAGGG	GCTCGAG	597

### (2) INFORMATION FOR SEQ ID NO:1374:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 459 base pairs
  - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1374:

GAATTCGGCC	AAAGAGGCCT	AGCCTCCCAG	TGTGAGCCAC	CGCACCCAGC	CTGGATTGTT	60
GAATTCAATG	CTTGGGTCAC	CTCCAGATTC	ATTTTCACAG	TCTTTCATGT	TTTGGTCATA	120
TGACATTGTA	TTTTGCTGCC	ATATGACTGA	TCTTTTTTTG	TTAAATGTGA	GATACTTGTT	180
AAAAAATGTT	TAGCAATGAA	TTGAGGCCTA	GTAGCATGTT	ATCTTGCTGC	AGAAGAGATG	240
GGAGTCTACT	TCTGGGGGAT	GGTCAGGGGT	CCTCCATACA	GGCTGCAATT	GAAGTCGTCG	300
GTGCAGGCTC	AGTCCCTACA	AAGGCCAGGG	TATTTCCTGT	CCACCTTTAT	TCTGATGCAT	360
GACTCTTCTG	GGTCTCAACC	AGAGCCAGTG	GACTTCAGTA	TGGGTCGCTT	TCATTGGCAG	420
ACCCTCAATC	CACTTGTTTT	CCATCTAATC	CCACTCGAG			459

- (2) INFORMATION FOR SEQ ID NO:1375:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 531 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1375:

GAATTCGGCC	AAAGAGGCCT	AATGGATCTC	ATGTGCAAGA	AAATGAAGCA	CCTGTGGTTC	60
TTCCTCCTGC	TGGTGGCGGC	TCCCAGATGG	GTCCTGTCCC	AGCTGCAGCT	GCGGGAGTCG	120
GGCCCAGGAC	TGGTGAAGCC	TTCGGAGACC	CTGTCCCTCA	CCTGCTCTGT	CTCTGGTGGC	180
TCCATCAGCA	GCAATAGTTA	CTCCTGGGGC	TGGATCCGCC	AGCCCCCAGG	GAAGGGGCTG	240
GAATGCATTG	GGAGCATCTC	TTACAGTGGG	AGCACCTACC	TCACCCCGTC	CCTCAAGAGT	300
CGAGTCACCG	TTTCCGTAGA	CCCGTCCAAG	AACCAGTTAT	CCCTGAGGCT	GAGCTCTGTG	360
ACCGCCGCAG	ACACGGCTGT	GTATTATTGT	GCGGGGGGT	CTCCGGGCGA	TTATTCCTAT	420
GAGAATAGTG	ATTACCCCGA	CCCCCCGTAC	TATTTAGACT	CCTGGGGCCG	GGGAACCCTG	480
GTCACCGTCT	CCTCAGCTTC	CACCAAGGGC	CCATCCGTCT	TCCCCCTCGA	G	531

- (2) INFORMATION FOR SEQ ID NO:1376:
  - (i) SEQUENCE CHARACTERISTICS:

(ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1376:  GAATTCGGCC AAAGAGGCCT AATGACTCAG AAGAAAGAAG TTACTTTACC ATTTTTGTTT ACACCATTTA AACTGCTTC TGATTCCAAA CAGTTCAACA TTTTAAGAAA AGCAAGATCT TGATATAAAAC ACAGAAAGTT TGATGAAGTG GTCTCCCTTT GCAAGGAGCT AATTCATCTT GCATTGAAGA GATTGTCCTA TTATCACACA TATGACAGAT TCTTTTGGG CGTCAATGTT GTTATTGGGTT TTGTGGGATG GATATCTTAT GCCTCTTTGT TGATCATCA AGCTTATAA AAGGTGTTAG TAAAGAAGTG AAGAAACCAA GCCATCTCCT GCCTTGTAGT TTTGTAGCAT ATGGCTTTT AGTAGACAGAT TTTCTGCTGA TCCATGCCA ACCTTATAAA AAGGTGTTAG TAAAGAAGTG AAGAAACCAA GCCATCTCCT GCCTTGTAGT TATTATGTAT ATGGTTTGTT GCCACTGCCA ATATGGTATG CGGTTCTAAG AGAATTCAAA GTTATTCAAA AGATTTCAAA GTTATTCAAA ACCTTATCAGA ACCTTATCAAA AGAATTCAAA GTTATTCAAA ATGGTTTGT ACCATGCCA ATATGGTATC TGGTCATTT TGTTGGGTAC CTGTTAGCGCT TACCCCTGGA AATATGATTCAT TATTACACGCTG GACTTACTGC CTTTGCAGCT TGGCCATTTC TCACTCCGCT GTGGACTCGA GTTATCCGCT GACTTACCGCTG GACTTACTGC CTTTGCAGCT TGGCCATTTC TCACTCCGCT GTGGACTCGA GACTTACCGCT GACTTACCGCT GACCTATATG CTTACCGCTG GACTTACTGC CTTTGCAGCT TGGCCATTTC TCACTCCGCT GTGGACTCGA GACTTACTGC CTTTGCAGCT TGGCCATTTC TCACTCCGCT GTGGACTCGA (C) INFORMATION FOR SEQ ID NO:1377:  (i) SEQUENCE CHARACTERISTICS:  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:  GAATTCGCGG CCGCCTCGAC AAAAAAAGGTA AAGATGTTGC TGTATGCAAA ATGGACCCAA GTTATGTTTA TCAAGTTGC CTGTAGAAAC TTAGTGCTCT ATAGCCACAA ACTCGAG  (2) INFORMATION FOR SEQ ID NO:1378:  (i) SEQUENCE CHARACTERISTICS:  (ii) SEQUENCE CHARACTERISTICS:	
GAATTCGGCC AAAGAGGCCT AATGACTCAG AAGAAAGAG TTACTTTACC ATTTTTGTTT ACACCATTTA AACTGCTTTC TGATTCCAAA CAGTTCAACA TTTTAAGAAA AGCAAGATCT TATATAAAAC ACAGAAAGTT TGATGAAGTG GTCTCCCTTT GCAAGGAGCT AATTCATCTT GCATTGAAAG GATTGTCCTA TTATCACACA TATGACAGAT TCTTTTTGGG CGTCAATGTT GCATTGAAAG GATTGTCCTA TTATCACACA TATGACAGAT TCTTTTTTGGG CGTCAATGTT GTAATGGTT TTGTGGGATG GATACTTAT GCCTCTTTGT TGATCAACAA GTCTCATTCC AACCTTATAA AAGGTGTTAG TAAAGAAGTG AAGAAACCAA GCCATCTCT GCCTGGACA TTTGTAGCTA TTGGCATTTT AGTAGCATTT TTTCTGCTGA TCCAGGCCTG TCCCTGGACA TATTATGTAT ATGGTTTGTT GCCACTGCCA ATATGGTATG CGGTTCTAAG AGAATTCCAA GTTATTCAGG ACCTTGTGT ATCAGTGTTG ACCTATCCTC TGAGCCATTT TCTTGGGTAC CTGTTAGCGCT TTACCCTGGG AATTGAAGTA TTAGTTCTCA GTTTTTCTA CCGCTATATG G  (2) INFORMATION FOR SEQ ID NO:1377:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 117 base pairs  (B) TYPE: nucleic acid  (C) STRANDBOMESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:  GAATTCGCGG CCGCCTCGAC AAAAAAGGTA AAGATGTTGC TGTATGCAAA ATGGACCCAA GTTATGTTTA TTCAAGTTGC CTGTAGAAAC TTAGTGCTCT ATAGCCACAA ACTCGAG  (2) INFORMATION FOR SEQ ID NO:1378:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 118 base pairs  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 118 base pairs  (B) TYPE: nucleic acid	
ACACCATTTA AACTGCTTC TGATTCCAAA CAGTTCACA TTTTAAGAAA AGCAAGATCT TATATAAAAC ACAGAAAGTT TGATGAAGTG GTCTCCTTT GCAAGGAGCT AATTCATCTT GCATTGAAAG GATTGTCCTA TTATCACACA TATGACAGAT TCTTTTTGG GCATTGAAAG GATTGTCCTA TTATCACACA TATGACAGAT TCTTTTTTGG GCATTGATAA AAGGTGTTAG TAAAGAAGTG AAGAAACCAA GCCATCTCCT AACCTTATAA AAGGTGTTAG TAAAGAAGTG AAGAAACCAA GCCATCTCCT GCCTTGTAGT TTTGTAGCTA TTGGCATTTT AGTAGCATTT TTTCTGCTGA TCCAAGCCTG TATTATGTAT ATGGTTTGTT GCCACTGCCA ATATGGTATG CGGTTCTAAA AGAATTCCAA GTTATTCAGG ACCTTGTTGT ATCACTGTTA ATCACTGTTA ACCATGCTC TGAGCCATTT TGTTGGGTAC CTGTTAGCCT TTACCCTGGG AATTGAGTATCTC TGAGCCATTT TGTTGGGTAC CTGTTACCGCTG GACTTACTGC CTTTGCAGCT TGGCCATTTCTC CCGCTATATG CTTACCGCTG GACTTACTGC CTTTGCAGCT TGGCCATTTC TCACTCGGCT GTGGACCTGA  (2) INFORMATION FOR SEQ ID NO:1377:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 117 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:  GAATTCGCGG CCGCCTCGAC AAAAAAGGTA AAGATGTTGC TGTATGCAAA ATGGACCCAA GTTATGTTTA TTCAAGTTGC CTGTAGAAAC TTAGTGCTCT ATAGCCACAA ACTCGAG  (2) INFORMATION FOR SEQ ID NO:1378:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 118 base pairs  (B) TYPE: nucleic acid	
GTTATTGGTT TTGTGGGATG GATATCTTAT GCCTCTTTGT TGATCATCA GTCTCATCC AACCTTATAA AAGGTGTTAG TAAAGAAGTG AAGAAACCAA GCCATCTCCT GCCTTGTAGT TTTGTAGCTA TTGGCATTT AGTAGCATTT TTCTGCTGA TTCAAGCCTG TCCCTGGACA TATTATGTAT ATGGTTTGTT GCCACTGCCA ATATGGTATG CGGTTCTAAG AGAATTCAA GTTATTCAGG ACCTTGTTGT ATCAGTGTTG ACCTATCCTC TGAGCCATTT TGTTGGGTAC CTGTTAGCCT TTACCCTGGG AATTGAAGTA TCAGTCTC TGAGCCATTT TGTTGGGTAC CTGTTAGCCT TTACCCTGGG AATTGAAGTA TTAGTTCTCA GTTTTTCTA CCGCTATAG  (2) INFORMATION FOR SEQ ID NO:1377:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 117 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:  GAATTCGCGG CCGCCTCGAC AAAAAAGGTA AAGATGTTGC TGTATGCAAA ATGGACCCAA GTTATGTTTA TTCAAGTTGC CTGTAGAAAC TTAGTGCTCT ATAGCCACAA ACTCGAG  (2) INFORMATION FOR SEQ ID NO:1378:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 118 base pairs  (B) TYPE: nucleic acid	3
TTTGTAGCTA TTGGCATTTT AGTAGCATTT TTTCTGCTGA TTCAAGCCTG TCCCTGGACA TATTATGTAT ATGGTTTGT GCCACTGCCA ATATGGTATG CGGTTCTAAG AGAATTCAA GTTATCAGG ACCTTGTTGT ATCAGTGTTG ACCTATCCTC TGAGCCATTT TGTTGGGTAC CTGTTAGCCGT TTACCCTGGG AATTGAAGTA TTAGTTCTCA GTTTTTCTA CCGCTATATG CTTTACCGCTG GACTTACTGC CTTTGCAGCT TGGCCATTTC TCACTCGGCT GTGGACTCGA  (2) INFORMATION FOR SEQ ID NO:1377:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 117 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:  GAATTCGCGG CCGCCTCGAC AAAAAAGGTA AAGATGTTGC TGTATGCAAA ATGGACCCAA GTTATGTTTA TTCAAGTTGC CTGTAGAAAC TTAGTGCTCT ATAGCCACAA ACTCGAG  (2) INFORMATION FOR SEQ ID NO:1378:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 118 base pairs  (B) TYPE: nucleic acid	3
CTTACCGCTG GACTTACTGC CTTTGCAGCT TGGCCATTTC TCACTCGGCT GTGGACTCGA  G  (2) INFORMATION FOR SEQ ID NO:1377:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 117 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:  GAATTCGCGG CCGCGTCGAC AAAAAAGGTA AAGATGTTGC TGTATGCAAA ATGGACCCAA GTTATGTTTA TTCAAGTTGC CTGTAGAAAC TTAGTGCTCT ATAGCCACAA ACTCGAG  (2) INFORMATION FOR SEQ ID NO:1378:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 118 base pairs  (B) TYPE: nucleic acid	4
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 117 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:  GAATTCGCGG CCGCCTCGAC AAAAAAGGTA AAGATGTTGC TGTATGCAAA ATGGACCCAA GTTATGTTTA TTCAAGTTGC CTGTAGAAAC TTAGTGCTCT ATAGCCACAA ACTCGAG  (2) INFORMATION FOR SEQ ID NO:1378:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 118 base pairs  (B) TYPE: nucleic acid	6
(A) LENGTH: 117 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear  (ii) MOLECULE TYPE: cDNA  (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:  GAATTCGCGG CCGCCTCGAC AAAAAAGGTA AAGATGTTGC TGTATGCAAA ATGGACCCAA GTTATGTTTA TTCAAGTTGC CTGTAGAAAC TTAGTGCTCT ATAGCCACAA ACTCGAG  (2) INFORMATION FOR SEQ ID NO:1378:  (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 118 base pairs (B) TYPE: nucleic acid	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:  GAATTCGCGG CCGCGTCGAC AAAAAAGGTA AAGATGTTGC TGTATGCAAA ATGGACCCAA GTTATGTTTA TTCAAGTTGC CTGTAGAAAC TTAGTGCTCT ATAGCCACAA ACTCGAG  (2) INFORMATION FOR SEQ ID NO:1378:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 118 base pairs  (B) TYPE: nucleic acid	
GAATTCGCGG CCGCGTCGAC AAAAAAGGTA AAGATGTTGC TGTATGCAAA ATGGACCCAA GTTATGTTTA TTCAAGTTGC CTGTAGAAAC TTAGTGCTCT ATAGCCACAA ACTCGAG  (2) INFORMATION FOR SEQ ID NO:1378:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 118 base pairs  (B) TYPE: nucleic acid	
GTTATGTTTA TTCAAGTTGC CTGTAGAAAC TTAGTGCTCT ATAGCCACAA ACTCGAG  (2) INFORMATION FOR SEQ ID NO:1378:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 118 base pairs  (B) TYPE: nucleic acid	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 118 base pairs  (B) TYPE: nucleic acid	
(A) LENGTH: 118 base pairs (B) TYPE: nucleic acid	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1378:	

(2) INFORMATION FOR SEQ ID NO:1379:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 229 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1379:	
GAATTCGCGG CCGCGTCGAC ATTTTATATA ATATTTTAAA TAAGTTTGTG TACAAAACAA AGATTTGACT GCATTTTGAT TGTGACCCCG TTGCATGAGAG TCAGGTGTGG AGTTTTCACC TTGTGGTATC ATGTTGCTGC TGCTCAAGAA GTTTCTGATT TTGGAACATT TTGGATTTTG GATTTTCACA TTGGGGATAC CTAATGTGAG AGAGACTAGG CCACTCGAG	60 120 180 229
(2) INFORMATION FOR SEQ ID NO:1380:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 140 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1380:	
GAATTCGCGG CCGCGTCGAC GTTGGGGACA TGGTGGGTCT GAGAAAAGTG TTGCCCGCAA CTTTCTATCT GGCATTCCCT GCGGAGGAAA TAGAATGCGC GCTCTCCGAC AGCATTTCCT GTAACATCCG CGAACTCGAG	60 120 140
(2) INFORMATION FOR SEQ ID NO:1381:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 99 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1381:	
GAATTCGCGG CCGCGTCGAC TCTCAGAAGA GGTTTGTTTA ACTTCTATAA ATACAACCAC TTCATGCGTT GGCATCTCCT TGAGAAAAGG CTTCTCGAG	60 99
(2) INFORMATION FOR SEQ ID NO:1382:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 442 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1382:	
GAATTCGGCC AAAGAGGCCT AGTTTAAGTG CTGTGGAGTA GTATATTTCA CTGACTGGTT	60
GGAAATGACA GAGATGGACT GGCCCCCAGA TTCCTGCTGT GTTAGAGAAT TCCCAGGATG TTCCAAACAG GCCCACCAGG AAGATCTCAG TGACCTTTAT CAAGAGGGTT GTGGGAAGAA	120 180

240

300

360

AATGTATTCC TTTTTGAGAG GAACCAAACA ACTGCAGGTG CTGAGGTTTC TGGGAATCTC

CATTGGGGTG ACACAAATCC TGGCCATGAT TCTCACCATT ACTCTGCTCT GGGCTCTGTA

TTATGATAGA AGGGAGCCTG GGACAGACCA AATGATGTCC TTGAAGAATG ACAACTCTCA

GCACCTGTCA TGTCCCTCAG TAGAACTGTT GAAACCAAGC CTGTCAAGAA TCTTTGAACA
CACATCCATG GCAAACCTCG AG

(2) INFORMATION FOR SEQ ID NO:1383:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 501 base pairs

(B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
  (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1383:

GAATTCGGCC A	AAAGAGGCCT	ATTCAGGTGT	TTTCATTTGG	TGATCAGGAC	TGAACAGAGA	60
GAACTCACCA T	rggagtttgg	GCTGAGCTGG	${\tt CTTTTTCTTG}$	TGGCTATTTT	AAAAGGTGTC	120
CAGTGTGAGG T	rgcagctgtt	GGAGTCTGGG	GGAGGTTTAA	TACAGCCTGG	GGGGTCCCTG	180
AGGCTCTCTT C	TGCAGCCTC	CGGGTTCATC	TTTAGCAACT	ATGCCGTGAG	TTGGGTCCGC	240
CAGGCTCCAG G	GAAGGGGCT	GGAGTGGGTC	TCAAGTATAA	GTGACATTGG	TGACACCAGA	300
TACTACGGAG A	ACTCCGTGAG	GGGCCGATTC	ACCATCTCCA	GAGACAATTC	CAAGAACATG	360
TTGTATTTGG A	ACATGAACAG	CCTGAGAGCC	GAGGATACGG	CCGTGTATTA	TTGTGCGGCA	420
AGGGATTGGT A	ATCATACTCG	TGGCTATTAC	TGGTACTACT	TTGACTTCTG	GGGCCAGGGA	480
TCCTTAGTCA G	GCGATCTCGA	G				501

- (2) INFORMATION FOR SEQ ID NO:1384:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 634 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double(D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1384:

GAATTCGGCC	AAAGAGGCCT	ACTTCAATAT	TCTGTTACGG	GTTTTTTTAG	TCTTTTTTTC	60
TCTTTGCTTT	CCTGTGTTGG	AATTTTCTAT	TTCTATATAC	TCAAGTTCAG	AGATTCTTTC	120
CTTTTCCATA	TCCTGTCTAC	TAGTGAGCCC	ATCCAAGGCA	TTGTTCATTT	CTGTTACAGT	180
GTTTTGATCT	TTAGTATTTC	TTTTTCATTC	TTCATTACAC	TTTCTCTCTG	CTAACATTGC	240
CCATAAGTGC	TTATATGCTG	TATACTTTAT	CTGTTGATCA	TATTTGTTTT	AAATTCCTAA	300
TCTGATAATT	CAACATCTCT	GACATGTCTG	GTTCTGGTTC	TGATACTTGT	TGTCAAACTG	360
TGGTTTTTTT	TCTTTTAGAG	TGGCTTTTAA	TTTTCTTTTT	GTTTTTTGTT	TTTTTTTTGG	420
ATAGTTGGAC	ATGACGTACT	AGATAAAAGC	AACTACTGTA	AATAGACCTT	TAGGAATGTG	480
GTGGTAAGAT	GTGAGAGGAA	GAAAAGCATT	CTGTAGTCCT	GTTAGGTTTC	AGTCTTTTAA	540
CCCATTTATG	CTTAGTGTTC	TATTACTGGA	ACGCTAGGCA	TGTGGAAGTT	ATTTATATCC	600
TACTGCTAAA	GGTTATCACC	AAGCTGTACT	CGAG			634

- (2) INFORMATION FOR SEQ ID NO:1385:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 700 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1385:

	FC1/0328/00330	
GAATTCGGCC AAAGAGGCCT ACTCAAGTTC AAGGAAAATG AAGACAAAAA	СТСАТАТСАТ	60
GGAAGAAAAC ATAGATACAA GTGCCCAAGC AGTTGCTGAA ACCAAGCAAG		120
TGAAGAAGAC TACAATGAAA ATGCTAAAAA TGGAGAAGCC AAAATTACAG		180
TTCTGAAAAA GAAATTGTGG AAGTAAAAGA AGAAAATATT GAAGATGCCA		240
AGGAGAAAAG AAAGAAGCAG TGGCAGCAGA AGTAAAAAAT GAAGAAGAAG		300
AGATGAAGAA GATCAAAACG AAGAGAAAGG GGAAGCTGGA AAAGAAGACA		360
AGGGGAAGAA GATGGAAAAG AGGATAAAAA TGGAAATGAG AAAGGAGAAG	ATGCAAAAGA	420
GAAAGAAGAT GGAAAAAAAG GTGAAGACGG AAAAGGAAAT GGAGAAGATG	GAAAAGAGAA	480
AGGAGAAGAT GAAAAAGAGG AAGAAGACAG AAAAGAAACA GGAGATGGAA	AAGAGAATGA	540
AGATGGAAAA GAGAAGGGAG ATAAAAAAGA GGGGAAAGAT GTAAAAGTCA	AAGAAGATGA	600
aaaagagaga gaagatggaa aagaagatga aggtggaaat gaggaagaag	CTGGAAAAGA	660
GAAAGAAGAT TTAAAAGAAG AGGAAGAAGG AAAGCTCGAG		700
(2) INFORMATION FOR SEQ ID NO:1386:		
(i) SEQUENCE CHARACTERISTICS:		
(A) LENGTH: 127 base pairs		
(B) TYPE: nucleic acid (C) STRANDEDNESS: double		
(D) TOPOLOGY: linear		
(b) TOPOBOGI. Timeat		
(ii) MOLECULE TYPE: cDNA		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1386:		
GAATTCGCGG CCGCGTCGAC CTTTAGTGTG TCTTTTCATT CTCTAAAAAG	TGTCCTTTGC	60
AGAGAAAAAA AAAATTTTAA TTTTGATGAA ATCCAACTTA TCAATTTTTC	TTCTGTGGCC	120
CCTCGAG		127
(2) INFORMATION FOR SEQ ID NO:1387:		
(i) SEQUENCE CHARACTERISTICS:		
(A) LENGTH: 128 base pairs		
(B) TYPE: nucleic acid		
(C) STRANDEDNESS: double		
(D) TOPOLOGY: linear		
(ii) MOLECULE TYPE: CDNA		
(14) CONCOUNT III D. CONCO		
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1387:		

GAATTCGCGG CCGCGTCGAC CTCTGTTCAG TCGTTTTGCT GAATATTTAT TAGCATTCCA 60
TCACTTTGTG TTTAATTAAT AGAAGTTGAG TTCAAACAAT GTTTTTAAAA TTCACACAAA 120
TACTCGAG 128

- (2) INFORMATION FOR SEQ ID NO:1388:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 816 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1388:
- GAATTCGGCC AAAGAGGCCT AGTTTCTTTT GCTCTACATC TTCACCAGTA TTTGGTGTTA 60

TCAGTGTTCT	GAATTTTGTC	CATTCTGATA	GGTGTGTAGA	GGTATCTTAT	AATTTTAATT	120
TGTGTTTCTC	TGATGCCATA	TGATGTGTGG	GACATCTTTT	CATATGCTGA	ATTGCCATCT	180
GTATATCTTT	GGTGAGGTGT	CTGTTAAGGT	TGTTGGCCAA	TTTTTTTAATT	GGGTTGTTTG	240
TTTTCTTGTG	GAATTTTAAG	AGTTCCTTAC	ACTGTCTCTG	TCTGTCTTGT	CTGTCTGTCT	300
GTCTGTCTGT	NGAGACAGAG	CCTCGCTCTG	TCACCCAGGT	TGCAGTACAG	TGGCACAGTC	360
TTGGCTCCCT	GCAACCTCTG	CCACCTGGGT	TCAAGTGATT	CTCCTGCGTC	AGCCTCCCGA	420
GTAGCTGGGT	TTATACCCGT	GCACCACCAC	ACCTGGCTAA	TTTTTGTATT	TTTAGTAGAC	480
ACGGGGTTTC	ACTANGTTAG	CCAGGCTGGT	CTCGACCTCC	TGACCTCAGG	TGATCCACCC	540
ACCTTGGCCT	CCCAAAGTGC	TGGGANGNGA	GCCACCACAC	CCAGCCTCCT	TACACATTTT	600
AGTTAATAGT	TCTTTATCAG	ATGTGTCTTA	TGTAAATATT	TCCTCCCTAT	CTGTGGCTTG	660
TCTTTTCATA	CTCTTGACAT	TGTCTTTTGC	AAAAGACAAC	AATTTTTAAG	AAACAAGTAG	720
ACAATTTTAA	TGAAGTCTGG	CTTATCAGTT	CTTTTCTTCA	TGGTTGGTAC	CTTTGGTGCC	780
GTATCTAAAA	GTCATCACCA	AACCCAAGAA	CTCGAG			816

- (2) INFORMATION FOR SEQ ID NO:1389:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 163 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1389:

GAATTCGCGG C	CGCGTCGAC	CTAAACCGTC	GATTGAATTC	TAGACGAACT	ATATGTTTAA	60
GCAAAAACAA A	TAAAAATAA	CCTCAAAAAA	AGTAATATCA	GAGTTTTAAT	TTCAACCAGC	120
TGGCACAACA A	TGAAAGTGT	CAGACTTTCT	GAAAGTACTC	GAG		163

- (2) INFORMATION FOR SEQ ID NO:1390:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 286 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1390:

GAATTCGGCC	TTCATGGCCT	AAAACCCTCA	AAAATAAATT	AGAATCCAGC	A CTCCTTACAA	60
TATATTATCT	AAAATGTCTA	ATTCTCAAAA	ATATGAGTGA	TGCAAAGAAA	CAGGAAACAG	120
TGAAACACAG	AGGAAAAAAC	AGTGACTAGA	AACTGACTTA	AGAGTAAGCC	CAGATGTATT	180
TOTO A COOM O	ACCOMMON A	CM x C Cm x mm x	N N CC N CC CC CC	****	GGGAAAATAT	240
IGGGAGCCAG	AGCCIICAAA	GIAGCTATTA	AATATGTTCG	AAAAAATTAA	GGGAAAATAT	240
GACAATGACT	CAAAAATAAG	GACTCTAAAT	ATAGAAATGG	GAGCTG		286

- (2) INFORMATION FOR SEQ ID NO:1391:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 392 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1391:

GAATTCGGCC TTCATGGCCT ACTTTTAAGG GCTTGGAAGT TTCAAAACCA CAGTCTGCAT GTGACAGGTG CTCACTGCTG TTGGGTTGCC CGCTGGTTCT AGGCCTCTGC TTGGAGTGTT GATCTGCTTT CTGACGGCAG GGCGTTCACA TGGGTGTGCT TTAATCTTAC GTCTCCGTCC TCTTTTTCCA CTGAGAGTGC TGGTCTCAAG GACAGTGGAG ATGAGAGAAT TGGAATATCG CATAATGTCT CATCTGTTT ATCTCTTGCT ACAAACATCA CAATCTCAAA ATAACAATGG CAGTACAACT GCCACCTATA TCATTACTGA AAACAGTGAA GATATTTTTT GCCTAAGTCT TCCCATTCTG TGTAGTTATG CAGAGTCTCG AG	60 120 180 240 300 360 392
(2) INFORMATION FOR SEQ ID NO:1392:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 286 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1392:	
GAATTCGGCC TTCATGGCCT AGTAATCTTT CCCCCCAGTT TTTGGATGAA GAAACTAACA CTGAAGGGC GAGGTGGCCT CCCAGGCTCA GAGGGTGATT CAGAATCCAG GCCTGGTGTT CCTTCCACAG TACCAAAGCG CCACACATTA GTTGTCTTGT AGATTTTCCA CACTTCAGGG AGAATGCCAA AGTATCTTTG CCTTGCACAC ACTACCTGTT CAACACTCAG TGACGAGGGT GTCGTGTGTG CTCAGGCAAC TCCCGCCCTT CTTCCTTTTG CTCGAG	60 120 180 240 286
(2) INFORMATION FOR SEQ ID NO:1393:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 320 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1393:	
GAATTCGGCC TTCATGGCCT ACTGAGTTCT CAAATCTAAC GTTTTAGGAA TTTTTTATTC CTGCAGAGAG TTGGGGAGCT GTTTAAAAGT TGGTTGGTTT AGCCAGTATA GCTAGATTCC TCAAGGTCAA CACAACGCCA TACTGCTCTA GCTGGGGCTA GATTTCTCAT GATAGTCTAA ACTGTGTGAT GGCCAAGTCC CCACTTTGAA GATGTCCAAA TTCAGCCTCA GACATTTCTC CTCAAGAAAG GGGGGCAAA AAAGCCTTTT GTGCCCCTTT CCCAAATTAT TTGCTCATGT CGCAAGACTG AGGTCTCGAG	120 180 240 300 320
(2) INFORMATION FOR SEQ ID NO:1394:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 450 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1394:	
GAATTCGGCC TTCATGGCCT AACGCCATCT ACGACCTGAT CGAGCGCATC GAGGATTTGG CGCTGCAGAA CCAGATCCGG GAGCACGTCA TCTCCATCGA GGACTCGTTT GTGAACAGCC	60 120

AGGAGTGGAC GCTGAGCCGC TCCGTACCGG AGCTTAAAGT GGGCATAGTG GGGAACCTGT

CCCCTGAAGG TGATCCGAGA TGTTTGTGTT	GTCAGCCCTG GTGCACCGCT ATCTGACGGG GAGGGGGGGTTT AAGAAGGAGA TTGTGGTGGA TCAAGCTTGC TCAGCCTGAGG GAGCCTGAGA GATGAAATCA GTTTCCAGAC GCCTTCCGCAAC ACCCCTCGAG	GGCCAGAGT GCCTGGGTG	TACCTGCTGC GATGCAGTGG	240 300 360 420 450
(2) INFORM	ATION FOR SEQ ID NO:1395:			
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 276 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:13	95:		
CTATTTTGGT AAGGCCAGTT ACTACCAAGC	TTCATGGCCT ACCGTCATTC ATTGCAGGGA CCGGGAAATCTA GCAGATAGAG AAGCCAAAACA ACTCTGTGCCTG TCCTCTTTA CTCCAAAACCTT CAAAAACAAG GACCATGGTA TCCTCTCAAAACA ATCTCTATCC TTCGAG	TAGCCCTA CCTCCAGAA	CAACCTGTAC GAAAAGGAGG	60 120 180 240 276
(2) INFORM	ATION FOR SEQ ID NO:1396:			
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 241 base pairs  (B) TYPE: nucleic acid  (C) STŘANDEDNESS: double  (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:13	96:		
ACTCTTTGAA GTTAACCGAC	TTCATGGCCT AGGGGGCGGG GGGCGGGGCG GACTANATAG TTTANANTCT CATCCAACTT CCATCTGTATAA AACATTCTAA CTGTTTTGCTAG TATACAGTAT GGCCACTTAC TC	CACCTAACT FGATGCCCA	TACATGCCTG CGACATACTA	60 120 180 240 241
(2) INFORM	ATION FOR SEQ ID NO:1397:			
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 314 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:13	397:		
TGTGATCGTG GGACCCCCTG	TTCATGGCCT AGAAAATGAA GAAGAAGATC A' GGGGGCATGC TGCTGATCGA CCTGTGTATC C' CGAAGGACAG TGGAGAAGTA CAGCATGAG C CGCCCTCTCC TGGAGCACTG TGAGAACACC C	TGATCTGCT CGGACCCAG	GGCAGGCTGT CAGGACGGGA	60 120 180 240

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CATCGTCTAT GCCTACAAGG GACTTCTCAT GTTGTTCGGT TGTTTCTTAG CTTGGGAGAC CCGCAACTCT CGAG	300 314
(2) INFORMATION FOR SEQ ID NO:1398;	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 342 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1398:	
GAATTCGGCC TTCATGGCCT AGTGCACACC AAGAACCAAG TTTCAGCTTG GTTACTGTGT TGAAGACACC TTTGCTATAT TTCAAGTCAT TCCTTCTTTT CTCAATTTT TTTAATTGAC AAAAATTTTA TATATCGTGT ACAACATCAA TCCATCTTGG CATCTGTATT TGTCAGGGTT GTCTTAGAGG GACAGAACTA ATAGGATATA TATAAGGGGG AGTTTATTAA GTATTAACTT ATATAATCAC AGGGTCCCAC AACAGGCTGT CTGCAAGTTG AAGAGCAAGG AGAGCCAGTC AGAGTGCCGA AACTGAAGAA CCTGGAGTCC GATGTTCTCG AG  (2) INFORMATION FOR SEQ ID NO:1399:	60 120 180 240 300 342
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 614 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1399:	
GAATTCGGCC TTCATGGCCT AGGGCCATGT TGGTTAGAAT GGTGCCATAT TTTCTGGGAT AGCACCATGC TGGCTGGGAT GGTGCCATGT TGGCTGGGAT GGCACCTGCC TCAGCCTCCC AAATAGCTGG GATTACAGGC ATCCTGCCC ATCCTGGCT AATCTTTTGC ATTTTTAGTA GAGAAGGGGT TCGTCATGT TGTCAGGCTG GTCTCTCACT CCTGAACTCC GGTGATCCGC CTGCCTCGCC CGCCCAAAGT GCTGGAATTA CAGGCATGAG CCCCCACGCC TGGCCTTTTA CTTGAGTTTT AATAGGATCG CTCTTGCTGC TATTGAGGAT GGTGAATGAT GCAAGCAGAG ACCTACTGTA GTACTCTTCA GGAGAGAATG GTGGCTTGCA CAAGGATGAA AGCAATGAAG GTGGTGAAAA GTGGTCAGTT TCTATATTTA TTAGGAAACA CCTAGGATGA TATCTTAATA GACCAAAATG TGAAATGTAA GAAAAATAGA GATGTCAAGA TGACACAAAG ATTTTTGGCT TTGACAACTG AAAGAATAGT TACTATCAAC TGTGATTGGT AACAATGCAC ATGGATCTCT CGAG	60 120 180 240 300 360 420 480 540 600
(2) INFORMATION FOR SEQ ID NO:1400:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 244 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1400:	
GAATTCGGCC TTCATGGCCT AGTTCTATTT AAAAAATAAA CAACTAGACA ATTAACTAGT	60

GAATTCGGCC TTCATGGCCT AGTTCTATTT AAAAAATAAA CAACTAGACA ATTAACTAGT

TTATTAACCT ATCACAATTG AATTTTTTT TAATTTTCAG TCTTAACACA TTTTTTAAAA TGTATTAAAG TAATACATTG TAGTAGTAGG ATTATATACT CCTTGGCTGA GAATTCCAAG TACTGTGGTT CTACTGTTTA GTGGAAAACT CTGGAAGTTA AAATATAGAA TATGAAACCT CGAG	120 180 240 244
(2) INFORMATION FOR SEQ ID NO:1401:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 325 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1401:	
GAATTCGGCC TTCATGGCCT AAAACAAACA AAAAATTATC TGAATGATCC TGTCTCTAAA AAGAAGCCAC AGAAATGTTT AAAAACTTCA TCGACTTAGC CTGAGTCATA ACGGTTAAGA AAGCACTTAA ACAGAAGCAG AGGCTAATTC AGTGTCACAT TCACATAATT ACTTTCGTAA TAGCTCAGAT TAGAATGGCT ACCCCATTCT CTAGACAAAA TCAAATTGTC CTATTGTGAC TCTTCTAAAA ATGAAGATGA AGAGCTATTT AATGACACAC CTTGGATTAA AACGGGAAAC TCGAG	60 120 180 240 300 325
(2) INFORMATION FOR SEQ ID NO:1402:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 364 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1402:	
GAATTCGGCC TTCATGGCCT AAAAGAAAAG AGAAAGTGTT ATTTTCCTGT TAGTGACATG TAGTCCCTTT GTTCTAGTAG GAAAAAAGGT GCCTAGAGGT AGTATATAGA GTAAATATTG TTCCTTTAGC CTACTTCCTG CAGCTTCCAA TTTATCCAAG GAAATGTCTA CAACAATTTT GTTCAAAAGT CTGTTCTAGT CAATAGCAGG AGAAGTCCAC GTTATTGGGC TGATTTTGCT TACATCAGCA AGAGAAATGT CACGTGATAC TCAGGCCGCG CTTTCTCTC CATCACACCA TCTTCAAGGA ATGTCAATAA ACCCACTTTG GCTAGGCAGG ATTGAATTCT AGACCTGCCT CGAG	60 120 180 240 300 360 364
(2) INFORMATION FOR SEQ ID NO:1403:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 262 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1403:	
GAATTCGGCC TTCATGGCCT AGTTAGGGAC TAACATTTGT ATCAACAGTT GATAAATGTC TAAGATTGTT TATTATACAG CAGGGTACAA TGGTAGTGCT AATGCCAACA GGGCACCATG GAAGTTAGTC TAAAAATTAT CGCTAGGCTT TATACAAGCA ACAACATATG CTGCTGCTCT	60 120 180

TAGAATTTTG GGAAATGATC TGCTTCTAAT ACTAAGCAGT TCTTTAACAT TTTTAAATAT TGAATTCTAG ACCTGCCTCG AG	240 262
(2) INFORMATION FOR SEQ ID NO:1404:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 396 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1404:	
GAATTCGGCC TTCATGGCCT AGCAATTTGC TTCAGTTTCC TTATGTTTGC CTTTCTCATC TGTCCTCTTT TCCATTTTAT TCCTACTCTG TCTCAGTCCA CTTACAGTTA TATTTCCTAT CTGTGTATTT TATAATATTT GTGCTTTAAAA TATCCTTTAT TTTACTGTTT CTTCTCTCC CTTGTCATAT TTTAAAGTGT TTTATTTCTC AGCCTTCTAT ATCTTTGCAT TAATTCTGTT CCTCTACAAT AGAGTCCGTT CCAAGCTTC TGTCTTCCA CGGCTCTGGC TCTCTCTCAC TCACCCCGA CTCGAG TTTTTTCTCA TCCTCTCAC TCCTCTCAC CTCGAG	60 120 180 240 300 360 396
(2) INFORMATION FOR SEQ ID NO:1405:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 444 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1405;	
GAATTCGGCC TTCATGGCCT AGACCAAAAT GTCTGCCCAG ATAAAGGATA CATTGTGCAT ACATACACTG GGGAGAGGCA GACAAAAAAA CAATGAGTT TGAGTGTGTG TGCGTGCTTG CATGCGTGCA TGCAGGCATG TGCATATATA ATGCTAAAAC ATGATAAGTA CTATTAAAAA AACAGGTTAG GGTGATTGA ACTACTAGGG TATGAAATACA AGTGGGTTGC AATTTAAAGT AGGGTCATTG TGGTGGCCT TATTGAGGTG ACATTGGAGT CAAGACTTGG AAGAAGAAAG GTTGTTGGCC ACACAGCTAT TGAGGGAAAA ATGTTCCAGA TAGAAGAAAC AGTCAGGGCA ATGCCTTGGG ATGGAATCAT GCATAGAGTA TTCACAGAAT AGCAAGGAAG CTCTAGTTCT AAAGTAAAGT GACTGAGACT CGAG	60 120 180 240 300 360 420
(2) INFORMATION FOR SEQ ID NO:1406:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 363 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1406:	
GAATTCGGCC TTCATGGCCT ACCTAGAAGG TAGTAATGAT AAGCATTTAA TTAGAAGTAG GCCTGAAGTT TGCAGTGCAA TGCAGTAAGT ATTTACCGAG TGATTCATAT GAGTAAGGAT GTGATAGCTG CTATAAGAGC TGCAAAGTTT ATTAAGATAC ATCCCTGTCC TGGAAACACT	60 120 180
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CCAGTTATTT	TCATTTCACA	GCTTCTCCAG	GATATATTCG CCTCCTTCAG AAATTCACAG	CTTCTGTTCT	CCCTCTTTGC	240 300 360 363
(2) INFORMA	ATION FOR SI	EQ ID NO:140	07:		1	

- ____
- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 229 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1407:

GAATTCGGCC TTCATGGCCT	AGGCTTCAGG	GATAACCACG	TTCAGGTGGG	TTAGACACAC	60
CTCCTGTGGG AGGGTGATTG	CAATTAGCTA	TCATAAGGCA	GGAGACACAA	CAGCAACTTA	120
AATTATCCAC AAGCAGAATC	ATGAGCTGTT	TGCAAAGGGA	GTTTCCATCG	CAAGACAGTT	180
TCACTGTATT TAAGCGAGAT	CCTGCCCTCG	TACACGATCA	CCGCTCGAG		229

- (2) INFORMATION FOR SEQ ID NO:1408:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 512 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1408:

GAATTCGGCC	TTCATGGCCŢ	AGGCTTCTAG	AACAAGAATG	TAGGCAGGCT	CCCAAATGGA	60
GAGGTAAACA	TGACCGCGTT	GTTTGAAACT	ACTTCATTAA	TTTGTAAATC	AGAACCAAAA	120
AGCTCTGGCC	CTCCCACTTC	TCTTAGCTGA	CCCTCCTCCC	CACTTACGGA	TAAACAGACT	180
TTAACTTCCC	TAACCCAGAA	ACACTTCCAC	CAAAAATGTA	TGGTTATACC	TTATCCTAAA	240
AAGGCACCAT	GCAGGCATTT	AAGACTGAAC	CAGTGAACTC	TAAATATGTA	GTAGTAGAAA	300
ATATCACTAA	TCAAAACTTC	CAGCATCAGA	TGGTACAAAA	CCCCAAGAGG	ACTGGTGACA	360
TGTACCCCGG	GATGGCAACC	CCAGCTTCTG	GCAACCCCAC	AGCCCAGCGG	GAGCTTCAGC	420
TCTGGTCAGG	TGCACGGCTG	CCAAAGTCTG	CACACCTTGG	GGACAAGGAA	AGGAGACACT	480
TGCTTCATTG	TGCTATTCAT	GACCCAGTCG	AG			512

- (2) INFORMATION FOR SEQ ID NO:1409:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 262 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1409:

GAATTCGGCC	TTCATGGCCT	AATGGATTAT	ATTTCTATAA	CAGTTAGAGT	ACTATTCCAT	60
TTATCTCTTT	CATTTTGAGT	AAAGTTTGGT	AGTTTAGGGA	GGAATTGATC	AATTTCATCT	120
AAATTGAAAG	ATTCAGGTAC	ATAAAGTTGT	TGTTATATTA	CTTATTATTC	TTTTAATGTC	180

TTTTTGTGCC AGCATGCTCG AG

(2) INFORMATION FOR SEQ ID NO:1410:

TGTGGGGTCT AGTGATGTCT CCTCTTTCAG TTCTGATATT GGTAATTTGT GTCTTCTCTC

240

262

(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 441 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1410:	
GGCCTGGAT CAGCCTCCAA AACTGGCTGA CACTAAAGGG AATAGAAGCA ATTGCATAAC	TTCATGGCCT AGGGAGGTGG TTTCTCTATC ATTGCATGAG GTAAGAGTCT GCTAAGGCTG CAGTTTCTA CAGAAAGGAG TCATCTCTGT GAGGCAGCAT GACACAGTGI GCTGACCTGG TTTTGTATAA AGATGAAAAC AGCTGTTCTC GGCCGGCCAC AGAGAGAGCG GCGGCTCAG CCTTCACAGG ATTGTCCTTC TAGGGGGTTT TAATCATCGC AGAAAGGAAG TGGGGGTGAA GGTCAGGAAA CGAATTCACC CCTCAGGCCT CAGCTAGAGG AAGCTAAGAG AAGAAATGAG TGTTAAGAAA AAGGCAAAGC TGGAGAGAAT CCTGGTTCCTG TCAGACTCGA	60 120 180 240 300 360 420
(2) INFORM	ATION FOR SEQ ID NO:1411:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 479 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	•
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1411:	
CCTGCTCTCT TTTATATATT GCTACTGCAG TCCAAAAGTA AATAAGCACA GATTTCTGTA	TTCATGGCCT AATTCATTGT CTGGTCCTTT ACAAAAGACA TATGCTGGCT GTGGATGATA GGTCTACAAA GATGTGATC AACTCATATA TGTCTCCAAA AATTCATATA CTGTTTTGTC TTACATTAAT CTAGCATTGT CTTTTGGCTT TAAGTTACCT TCTCATCATCA ACTTTATCAA CTCACCTAAG AATGTAGGTT TCTCCCTGGGT TCTTTTTGCCT CTTAAGTTTT GCCATCCCCA ACAGAGACCCT GCACCAAAGA ACCTTACTTT TAGACTGTAA GCACCAAAGT GAGAGAGTGA GCCAGGCTCA GTCTTATGAC TGGCAATACA AGTTGAGGGT GACAGAACAC TAGCTATGAT TAGGTGAGTG CTTCTCGAG	60. 120 180 240 300 360 420 479
(2) INFORM	ATION FOR SEQ ID NO:1412:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 497 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: cDNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:1412:	
	TTCATGGCCT AGCCGATTTA TAAATATGTA TATATAACCT TTCCCTTTTT TTAGTAATAG TCAAAGCCAT ACCCTATTCC TTAGTGAGAA AGCCAGTTTG	60 120

AAACGAATGT	AGCAATAGAT	GTAAAAACAT	TTAAAGGCGT	TTTAATGTGG	CTTTTTAATG	180
AGCTGGCTTA	TGCCTGTAGT	CCCAGCACAT	TGGGCAGCTG	AGCTGGGAGG	ATCGCTTGAG	240
CCCGGGAGTT	CAAGACTAGC	CAGGGCAACA	TAGTGAGACC	CCATCTCTAT	TTAAAAAAAA	300
ATGTTTTTAA	AGATAAGGAA	CAGACTTAAA	GTGATGATTG	ATTGCTCATA	GAACGTTCAT	360
TTTGGGCTCC	AGAACTAGGA	ATGATGTAGA	ATTTATTGTT	GTGTCATTGT	CTCATTAAAT	420
GCTGTAGTTT	CCTATGTCCT	TGCCTACCTT	CTTTCCTCAG	AGCCTCGCAT	CTGACCCTCA	480
GAGAGTAGCA	GCTCGAG					497

- (2) INFORMATION FOR SEQ ID NO:1413:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 439 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1413:

GAATTCGGCC	TTCATGGCCT	ACAGGAACAA	AAAATGCTAT	GCTATTATCT	CAAAAATGCA	60
TACTCCTTCC	TACTTAAGAA	TAATAAATTT	ATATATTATG	ATATGGTAAA	ATTCACAACT	120
AATTGTATTT	TTCCCTAGAA	TGTTTAAAGC	ATTATCTAAT	ACCAGCTTCA	GTGTCTATAT	180
TACTGTAACT	TCATGAAAGA	CTACTAACAA	TACTGGCTAT	CATTTATTAA	TATTAAGTAG	240
TACTTGCCAG	ATGCCGTTAG	AGGTGCTTTA	AATGCATTCT	CATTTAGTCT	TCGTGTGTAC	300
TACCGTTATC	TTCACTTTTT	AGATAAGGAG	ACTAAAGTAT	AACTAGAGCT	AAGAAACATG	360
AGAAAGACGA	CCTAGCTACT	GCCTATTTTG	TAATTCCCAT	GGACTAAGCT	TGGAGAAGTA	420
AGAACTATTA	CTACTCGAG					439

- (2) INFORMATION FOR SEQ ID NO:1414:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 243 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1414:

GAATTCGGCC TTCATGGCCT	AGCCACTTCA AGACGGCAAG	TTATTTTAGC	TCCTGTCTAA	60
ATAAGTTAGT GGGCTCCAGT	CCTTAAACCA CTATTTTCTT	TATTAATTCC	TCAAGTACAG	120
ACTITIGIAT GTAACCAGIC	TTTTTAAACC TGTGTATAAT	GACTCATTAA	TGAGTTGTAA	180
AATAAATGTA GTGAGTTATG	ACCAATATAA AAAAATAGAA	AAGGCCAGGC	ACAGTCGCTC	240
GAG		•		243

- (2) INFORMATION FOR SEQ ID NO:1415:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 276 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1415:

GAATTCGGCC	TTCATGGCCT	AGTCTTCCAA	GACAGGAATC	AGCAACCTTT	TTTTGTTTTT	60
CTGTATCAGT	AATTCATTCT	GTATATTTTA	AAAAGTTTTA	ACCTCTTCTT	CCTAGCCCTC	120
CAGTATTTGT	ATTAAAATAT	AAACGTTTCC	CAAAGTGTTT	TCTGTGAAAC	AATAGTTCTA	180
AAAGGTGCTC	TAAGAAAAGC	TAAGTACATG	GCAAAATCCA	AAGTATATGT	TTTATTCATT	240
ACATTTGATG	AATTTTTTTT	GTTTTTTCCT	CTCGAG			276

- (2) INFORMATION FOR SEQ ID NO:1416:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 341 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1416:

GAATTCGGCC	TTCATGGCCT	AGAGAGCAGG	TTTTAGCTTG	CATCCAGCTG	TTTCTTGAGT	60
GATGTGTACA	GCTTACCCCC	AAAGAGGCAA	CTGAATTTCA	GCTGCTCTAA	TACCCACACC	120
CTCAACTTAG	GTTTAGTCAT	AATAAAAAAC	AGAATGGATT	TGTTAGTTCC	ATTGATTGCC	180
ACAAACCTCA	CCTTCTGTGT	GGCAGAGATG	TGCTTTAGTT	CTTCATTGGA	ATGTTACTTT	240
CAGATCTCAC	AAACCTCAAA	CCTAGGGCAC	CACCAATGAC	AAAGAGAATG	CTAAATAGAT	300
AAATCCTTTG	CCAGGTCTTC	AAGCTTTCCA	CTCCCCTCGA	G		341

- (2) INFORMATION FOR SEQ ID NO:1417:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 455 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: CDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1417:

GAATTCGGCC	AAAGAGGCCT	AGCCATTATT	ATTAAAAAGT	ÄGGATTGCTA	CCCGCCATTA	60
CTATTAAAAA	GTAGGATTGC	TACCCGCCAT	AAATTATTAT	AAGTAGGATT	GGTACCCGCC	120
ATTATTATTA	AAAAGTAGGA	TTGCTACCCA	ACATTATTAT	TAAAAAGTAG	GATTGCTACC	180
CTCCATTATT	ATTAAAAAGT	AGGATTGCTA	CCCTCCATTA	TTATTAAAAA	GTAGGATTGC	240
TACCTGCCAT	TATTATTAAA	AAGTAGGATT	GCTACCTGCC	ATTATTATTA	AAAAGTAGGA	300
TTGCTACCTG	CCATTATTAT	TAAAAAGTAG	GATTGCTACC	CGCCATTATT	ATTAAAAAGT	360
AGCATTGCTA	CCCGCCATTA	AAAAATTATT	GTAGGACTGC	TACCCGCCGT	TATTTGCACA	420
GCTACCTTAT	GAAAGTAGTT	TCACGCTGTC	TCGAG			455

- (2) INFORMATION FOR SEQ ID NO:1418:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 573 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1418:
- GAATACCTAG CTTCCATGAT TTATGATAGA TATCCTTTAT TGGACCAATT CGTGTCTGTA

60

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ACCAGCCTCC	TGTTTCTACT	GCCATCCCCT	CCTCATGCAC	AGATGCCTCC	TCCCTTGGCT	120
CCTGCTCTGA	TCCCTGTACC	CAGCTTGTCC	CCTGCAAGCA	TGTTCCCCTC	CCTTGCCCAG	180
GCTCTGACAC	CCCACACATG	TGTGGATCCC	CTCCCCTGTC	CCAGCTCTGA	TACCCCTTGC	240
ATGTGTGGCT	GCCCCTCACC	TGGGTGTCCT	CTTCCCTGTC	CCAGCTCTGA	CAÇCCACGCA	300
TGTGGGGCTG	CCCCGTGCCT	AGGTGTCCCC	TCCTCTGCTC	AGGCTCTGTC	CTCCTGCGGT	360
TGGCTTTCCC	ATTCTGGATG	CACCTCACAC	ACAGCCTTGT	CATCTTTGGA	TGAATTTGGC	420
CTCCCCCATC	CACTGCTGGT	GCAGATGCTT	CCTTACGGGG	CCTTGTCTGA	TGGCTTTAGG	480
GCTGAATCAT	GCAGGAAGGA	AGGAGAAGGA	CAAGAAGAAA	AGGGAAGGCT	GGGAAGGGAA	540
GCGGGTGGTA	AAATTGGTTC	ACAAGCCCTC	GAG			573

- (2) INFORMATION FOR SEQ ID NO:1419:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 188 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1419:

GAATTCGGCC	AAAGAGGCCT	AAAAATTTTA	AAACTATTTA	ATTTTTTAAT	TTATTTTTGG	60
TTGTTTTTTG	CACAATGAAG	TTTCAGCTTC	TCAACCTTCT	CCCCTACCCA	GGGCTGTGGA	120
CCCAGACTGG	CCTTGAGCCA	CAGTCCCTCT	TTCCCTCCTC	ACCCTCTTCC	CCCTCCGGGC	180
ACCTCGAG						188

- (2) INFORMATION FOR SEQ ID NO:1420:
  - (i) SEQUENCE CHARACTERISTICS:

    - (A) LENGTH: 572 base pairs (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1420:

GAATTCGGCC	AAAGAGGCCT	ACGAGGAAAG	ATCTAATTAT	CATGGACCTG	CGACAGTTTC	60
TTATGTGCCT	GTCCCTGTGC	ACAGCCTTTG	CCTTGAGCAA	ACCCACAGAA	AAGAAGGACC	120
GTGTACATCA	TGAGCCTCAG	CTCAGTGACA	AGGTTCACAA	TGATGCTCAG	AGTTTTGATT	180
ATGACCATGA	TGCCTTCTTG	GGTGCTGAAG	AAGCAAAGAC	CTTTGATCAG	CTGACACCAG	240
AAGAGAGCAA	GGAAAGGCTT	GGAAAGATTG	TAAGTAAAAT	AGATGGCGAC	AAGGACGGGT	300
TTGTCACTGT	GGATGAGCTC	AAAGACTGGA	TTAAATTTGC	ACAAAAGCGC	TGGATTTACG	360
AGGATGTAGA	GCGACAGTGG	AAGGGGCATG	ACCTCAATGA	GGACGGCCTC	GTTTCCTGGG	420
AGGAGTATAA	AAATGCCACC	TACGGCTACG	TTTTAGATGA	TCCAGATCCT	GATGATGGAT	480
TTAACTATAA	ACAGATGATG	GTTAGAGATG	AGCGGAGGTT	TAAAATGGCA	GACAAGGATG	540
GAGACCTCAT	TGCCACCAAG	GAGGGTCTCG	AG			572

- (2) INFORMATION FOR SEQ ID NO:1421:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 498 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

PCT/US98/06956 WO 98/45437

# (xi) SEQUENCE DESCRIPTION; SEQ ID NO:1421:

GCAAGACGGC	TACTGAGGCA	GGAGAATCGC	TTGAACCCAG	GAAGCGGAGG	TTGCAATGTG	60
CCAAGATCGT	GCCACTGCAC	ACTCTAGCCT	GGGCAACAGA	GCAAGACTGT	GTCTCAAAAA	120
AAAAAAATCT	TNGACNAAAC	ATAGTTGTTN	ACATACTTCT	TTAATCCCAG	AGTTAGTTTT	180
AAAAANNACA	TGATTGCTGT	TTTTGCATAT	TATCTCAGCG	${\tt GTCTAAAATT}$	AACCTAGCCA	240
TGTGCAGGAA	TGGGTAAAGT	CCCCTTAAAC	AAAAATGGGG	TTAGTTANGT	TAGTTCTTTT	300
GCCATTTCAC	TGGTCATATA	CCTGAAGCGC	TTAGCCTGAC	ACAATTGAAC	GCCAGACGGA	360
AGCCGNGATC	AGCGGTCCTG	ACGGGGGTCA	GAGTCAGACC	AGGGGTCTTT	TACCCAAGTG	420
GGGAAGATTG	GGAAAGGCCT	AGGATCAGAG	AGGGAAATGG	GTCCCTGGTT	GCCCATGGAC	480
CTAATGGGGT	CTCTCGAG					498

#### (2) INFORMATION FOR SEQ ID NO:1422:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 827 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1422:

GAATTCGCGG	CCGCGTCGAC	GAGGAAACCA	GCCAAGGACT	AACTACGACC	ATGAGATTGG	60
CAGTGATTTG	CTTTTGCCTG	TTTGGCATTG	CCTCCTCCCT	CCCGGTGAAA	GTGACTGATT	120
CTGGCAGCTC	AGAGGAGAAG	CTTTACAGCC	TGCACCCAGA	TCCTATAGCC	ACATGGCTGG	180
TGCCTGACCC	ATCTCAGAAG	CAGAATCTCC	TTGCGCCACA	GAATGCTGTG	TCCTCTGAAG	240
AAAAGGATGA	CTTTAAGCAA	GAAACTCTTC	CAAGCAATTC	CAATGAAAGC	CATGACCACA	300
TGGACGACGA	TGATGACGAT	GATGATGACG	ATGGAGACCA	TGCAGAGAGC	GAGGATTCTG	360
TGGACTCGGA	TGAATCTGAC	GAATCTCACC	ATTCGGATGA	GTCTGATGAG	ACCGTCACTG	420
CTAGTACACA	AGCAGACACT	TTCACTCCAA	TCGTCCCTAC	AGTCGATGTC	CCCAACGGCC	480
GAGGTGATAG	CTTGGCTTAT	GGACTGAGGT	CAAAGTCTAG	GAGTTTCCAG	GTTTCTGATG	540
AACAGTATCC	TGATGCCACA	GATGAGGACC	TCACCTCTCA	CATGAAGAGC	GGTGAGTCTA	600
AGGAGTCCCT	CGATGTCATC	CCTGTTGCCC	AGCTTCTGAG	CATGCCCTCT	GATCAGGACA	660
ACAACGGAAA	GGGCAGCCAT	GAGTCAAGTC	AGCTGGATGA	ACCAAGTCTG	GAAACACACA	720
GACTTGAGCA	TTCCAAAGAG	AGCCAGGAGA	GTGCCGATCA	GTCGGATGTG	ATCGATAGTC	780
AAGCAAGTTC	CAAAGCCAGC	CTGGAACATC	AGAGCCACGG	CCTCGAG		827

- (2) INFORMATION FOR SEQ ID NO:1423:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 348 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1423:

GAATTCGCGG	CCGCGTCGAC	GGGAGAGGAA	GGGTTGGGCA	GGATGGAATA	TTAAATTGTA	60
ACATGATAAA	CATGCAAGAC	TGTTATCCAA	TCTAGATAAT	TTATATACAT	TTTGATGACT	120
TAGGAAAACA	AAGCAATCAT	TTGTGACAAG	CCTAAAAAGC	TTGACATATT	TAACATACTT	180
AGGAACTTTT	TTTGTGCGGT	GGGAATTCTC	TAATTGTATC	ATGTGGGCCT	TTTGAAAGTA	240
ACAAACAGAA	GGCCAGTCTG	TTGCAAGTTT	GCTGCTGAAC	ATCACATTCC	ACCCTAAGAA	300
AACACAAGGT	GGATTGCATC	GAGGGTGGAT	ACCTTACCTT	AGCACAGA		348

(2) INFORMATION FOR SEQ ID NO:1424:

(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 152 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1424:	
GAATTCGCGG CCGCGTCGAC TTGGAGAATG TGGCCTCTGA TCACTAACCA GGGTTTTCTC TTTACACTGG CTTGTTTACT TATTTCTTCA CCAAAGCCAG GGAACGTCCC TTTAGCTACT GCAGCATTC TAACAGATGC GACAAATCAC AG	60 120 152
(2) INFORMATION FOR SEQ ID NO:1425:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 206 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: double</li><li>(D) TOPOLOGY: linear</li></ul>	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1425:	
GAATTCGCGG CCGCGTCGAC CTAAACCGTC GATTGAATTA GACCTGCCTC GAGATGCGCC ACTTTCTGCT CACCCACCTT AGAGCCTTTG CATATGCAGT TGCTTCCTCA GAGTATTGCC ATCCCCAGCA CGACCCCCAG CTCATTCTTC AGGCCACTAA CGTAAATGTT ACTTTCTCAA AAACACCCTC TCCATCCCGG CACCCA  (2) INFORMATION FOR SEQ ID NO:1426:	60 120 180 206
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 353 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1426:	
GAATTCGCGG CCGCGTCGAC GTGGGTACTT CATCCTCCTC ATCACTGGTT GGCACTGAGA GCTTCTTAAG ACGCTCCATG AGCTCTTTCT CTTCTCCATC ATCATCCACA TCCTTCTTCC GCCTGCCTTT TCGGGTATCT CGCTTTTTT TTTGCTGCTG TTGCTGTTGC TGCTGCTGCT GCTCCTTCTC CTTGAGCACT TTCTCTTCTT CCCCAGCCTG TTTATCTTCT ACTGCCAGCT CTTCAAAGAA CGTTTTTTG ATCTTCTNGT CCTTCTTCCC TTCTTCACC ACTTTGTCTG ATGGGCTCGT GCTCTCTCCG TCCCCGATCC ACTCGGGCTC CGGCGGACTC GAG	60 120 180 240 300 353
(2) INFORMATION FOR SEQ ID NO:1427:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 343 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
566	

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1427:

GAATTCGCGG CCGCGT	CGAC AGATATTTGG	TTATCTTGAC	TTTTTAAAAT	AACATATTTC	60
TACAGGATTT TGAGTO	TGAG AAGAGAAAGG	TAATATGCAA	GACACTTCGA	TTTGTTGCAC	120
ATTATTATGG AGCATO					180
GTACCAAATT TGGGGA					240
TAATGCACAT GGTCCC	GTTG CTTTCCCACT	GCTGAAGACC	TCTCCTTACA	GAGTGTTTGA	300
TAATGCATCT GTTGAA	CATG CACTGCTAGA	TGGTCCTCTC	GAG		343

- (2) INFORMATION FOR SEQ ID NO:1428:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 542 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1428:

GAATTCGCGG	CCGCGTCGAC	GAGGGGAAGA	TGTCACGCAA	GATAGAAGGC	TTTTTGTTAT	60
			GATTATCGTC			120
ACCCCTGGTA	CCAAAAAGCA	TGCAAGTGCG	ATTGCCAAGG	AGGACCCAAT	GCTCTGTGGT	180
CTGCAGGTGC	CACCTCCTTG	GACTGTATAC	CAGAATGCCC	ATATCACAAG	CCTCTGGGTT	240
TCGAGTCAGG	GGAGGTCACA	CCGGACCAGA	TCACCTGCTC	TAACCCGGAG	CAGTATGTGG	300
GCTGGTATTC	TTCGTGGACT	GCAAACAAGG	CCCGGCTCAA	CAGTCAAGGC	TTTGGGTGTG	360
CCTGGCTCTC	CAAGTTCCAG	GACAGTAGCC	AGTGGTTACA	GATAGATCTG	AAGGAGATCA	420
AAGTGATTTC	AGGGATCCTC	ACCCAGGGGC	GCTGTGACAT	CGATGAGTGG	ATGACCAAGT	480
ACAGCGTGCA	GTACAGGACC	GATGAGCGCC	TGAACTGGAT	TTACTACAAG	GACACTCTCG	540
AG						542

- (2) INFORMATION FOR SEQ ID NO:1429:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 465 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1429:

			GCTTCGGAGA			60
ATGAGATCCC	TGCTCAGAAC	CCCCTTCCTG	TGTGGCCTGC	TCTGGGCCTT	TTGTGCCCCA	120
GGCGCCAGGG	CTGAGGAGCC	TGCAGCCAGC	TTCTCCCAAC	CCGGCAGCAT	GGGCCTGGAT	180
AAGAACACAG	TGCACGACCA	AGAGCATATC	ATGGAGCATC	TAGAAGGTGT	CATCAACAAA	240
CCAGAGGCGG	AGATGTCGCC	ACAAGAATTG	CAGCTCCATT	ACTTCAAAAT	GCATGATTAT	300
GATGGCAATA	ATTTGCTTGA	TGGCTTAGAA	CTCTCCACAG	CCATCACTCA	TGTCCATAAG	360
GAGGAAGGGA	GTGAACAGGC	ACCACTAATG	AGTGAAGATG	AACTGATTAA	CATAATAGAT	420
GGTGTTTTGA	GAGATGATGA	CAAGAACAAT	GATGGCATAC	TCGAG		465

- (2) INFORMATION FOR SEQ ID NO:1430:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 373 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: CDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1430:

GAATTCGCGG	CCGCGTCGAC	GCTGTTCATG	AGGAGACTTA	ACCACAATTC	AAAGTGTAGC	60
AGTTGTGTAT	TTTAGCATTA	TAATATTTGA	TTGAGGCCCT	GAGGTGTTAA	TATCTCAATC	120
TCAGAGTTAG	ATGTTCATGT	CCTTTTTGAA	TTTTTTAAAC	ATTTTTCATA	ATTTTTTTT	180
TAAGTTAGGG	AGCACATTGA	GTGAAGTTCT	CTGTGTAGAA	CAATACCTTC	TGCTCTGCTT	240
		CTGGAAAAGG				300
TGTATGGGGA	AGCTCAGGCT	CTGGTGGAAG	CAGGGGGCAT	GGATGTCAAA	CAACTGATGT	360
GÇAAACACTC	GAG					373

- (2) INFORMATION FOR SEQ ID NO:1431:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 632 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1431:

GAATTCGGCC	TTCATGGCCT	ACTACTGATG	AGAACATTAT	CTGCATATGC	CAAAAAATTT	60
TAAGCAAATG	AAAGCTACCA	ATTTAAAGTT	ACGGAATCTA	CCATTTTAAA	GTTAATTGCT	120
TGTCAAGCTA	TAACCACAAA	AATAATGAAT	TGATGAGAAA	TACAATGAAG	AGGCAATGTC	180
CATCTCAAAA	TACTGCTTTT	ACAAAAGCAG	AATAAAAGCG	AAAAGAAATG	AAAATGTTAC	240
ACTACATTAA	TCCTGGAATA	AAAGAAGCCG	AAATAAATGA	GAGATGAGTT	GGGATCAAGT	300
GGATTGAGGA	GGCTGTGCTG	TGTGCCAATG	TTTCGTTTGC	CTCAGACAGG	TATCTCTTCG	360
TTATCAGAAG	AGTTGCTTCA	TTTCATCTGG	GAGCAGAAAA	CAGCAGGCAG	CTGTTAACAG	420
ATAAGTTTAA	CTTGCATCTG	CAGTATTGCA	TGTTAGGGAT	AAGTGCTTAT	TTTTAAGAGC	480
TGTGGAGTTC	TTAAATATCA	ACCATGGCAC	TTTCTCCTGA	CCCCTTCCCT	AGGGGATTTC	540
AGGATTGAGA	AATTTTTCCA	TCGAGCCTTT	TTAAAATTGT	AGGACTTGTT	CCTGTGGGCT	600
TCAGTGATGG	GATAGTACAC	TTTTCACTCG	AG			632

- (2) INFORMATION FOR SEQ ID NO:1432:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 298 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1432:

GAATTCGGCC	TTCATGGCCT	ACTAATTTCC	AAGAGCTAAA	CTTTATACCG	CCTGCAATAT	60
TTCCATTTAC	TACCAGTTTT	TTTCTGACCT	AGTCAGATAT	AAGAAGCCCC	CTTACTGGAT	120
ACAAGACAGT	TAATTATCAG	ATCCAGTCTG	ATCCTAGATC	CAGTCTGATC	CTAGACCCAG	180
TCCAGTTTCT	GTTGTGACTT	CCAAACCCAG	TTTGGATCAG	AAATTTGCTC	AAAGAAACTA	240
GGAGAGCTCA	AAACACAAAT	ATGTGGAGCT	TCTGAATCTG	AGAGAGAACG	AACTCGAG	298

- (2) INFORMATION FOR SEQ ID NO:1433:
  - (i) SEQUENCE CHARACTERISTICS:

wo

98/45437		PCT/US98/06956	
	(A) LENGTH: 335 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1433:		
	GCGTGGTTTC ACCTTGTTGG CCAGGCTAGT CTTGAACTCC TGACCTAGACTCC TCCAAAGTGC TGGGATTACA GGCATGAGCC ACCGCATCTTACTTTCACTTTC CAAGGAAAAA TTTAAAAGGA AAAAATGTCT TATATTTACCATTCCCAG TGCTCTTAT TTCTTTATGT CAATCGGAT TCCAATTCCCAG AATAACAGTT TAACAGCAAC TCGAG	FG ACTGGTGCAC AC TTTAGACAGC EC CTCATGTTTA	60 120 180 240 300 335
	(2) INFORMATION FOR CEQ ID NO:1434:		
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 316 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1434:		
	GAATTCGGCC TTCATGGCCT AATGCTCTGT GTCACTGTCT CCCGGTGCT AGTTCAAGAC AGATTTTTAT GATCAATGCA ACGACGTGGG GCTCATGGC CCATCACCAA AACGTGCAAC ACCATGAACC AGTTTGTGAA CAAGTTCAA ACGGACAAGG CATCGGCAGG AGAATGCGCG GGCTCTTTTT CTGATGAGG GCTGATGGAC AGGGGTCAGG CAACTATCCC AAAGGGGAGG GCACTACAC AAACCACTGT CTCGAG	CC TACCTCGGCA AT GTCCTCTACG GG TACTTGAAGG	60 120 180 240 300 316
	(2) INFORMATION FOR SEQ ID NO:1435:		
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 383 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear		
	(ii) MOLECULE TYPE: cDNA		
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1435:		
	GAATTCTAGA CCTCCCACCC TGTAGAACAT TCTCCTCACT TAGGAGAT. AGGCTGCCTT TGAAACTGTG GGTACACAAA CAGCAGAGGG ATCTATTT. TTGTATTTGA GCCATTATTT CTTCCACTCT CTTTTTGGTT GAGTTCT. GCTGAACTCC ATGACTGCTC ATATTACAGT GCTAAGTCCT CACAGCCA. ACACAAGAAG AAACTAGGCC CACCAAGAGT AAGCGCCTGC CTGAGGTC	CA GCAGTTGAAG AG GAAGGAAAGG IC CACTGTTTAT CG TGAGTGAGTA	60 120 180 240 300
	AGGGCCAAAG GTGAGGTTGG GATCTGGCCC TTTCTCTTTT CTGGCCAC	CA CAGGGCACTA	360

(2) INFORMATION FOR SEQ ID NO:1436:

CCTCCCATAC CCACACACTC GAG

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs 383

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1436:

GGAGAACTGC	TAAGGTCCAC	AACGTCGACA	ATTGAAAGCT	TTGCTGCACA	AGAAAAACAA	60
ATGGAAGTTT	GTGAAGTATG	TGGAGCCTTT	TTAATAGTAG	GAGATGCCCA	GTCCCGGGTA	120
GATGACCATT	TGATGGGAAA	ACAACACATG	GGCTATGCCA	AAATTAAAGC	TACTGTAGAA	180
GAATTAAAAG	AAAAGTTAAG	GAAAAGAACC	GAAGAACCTG	ATCGTGATGA	GCGTCTAAAA	240
AAGGAGAAGC	AAGAAAGAGA	AGAAAGAGAA	AAAGAACGGG	AGAGAGAAAG	GAAAGAACTC	300
GAG						303

- (2) INFORMATION FOR SEQ ID NO:1437:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 228 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1437:

GAATTCGGCC	TTCATGGCCT	AGACTTTTAC	ACATTTTTAT	TAGCTACCTG	GAATTATTTT	60
TGTAACACGT	TAAGTGTAAA	TAAACAAATA	ATGCTTTGCT	TTTTGTTTTC	TGGAATTATT	120
GTTGTATTTC	TTTGCCAAAT	GCATATATCT	TCAGGTCTTT	TTTTTATAAC	CATATGCATA	180
CCAAGGCACC	ATTCCATTGA	CTTTCCAACT	TCTGTCCCAA	CCCTCGAG		228

- (2) INFORMATION FOR SEQ ID NO:1438:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 498 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1438:

GTGAATTCCA	GTCCCCACCC	AGAAACCCGC	AGCATGATTG	TCTGCCTCCT	TTTCATGATG	60
ATTTTATTGG	CAAAGGAAGT	TCAACTGGTA	GACCAAACAG	ATTCACCTTT	ACTTAGTCTC	120
CTTGGACAGA	CAAGCTCACT	TTCATGGCAT	CTTGTGGATA	TTGTGTCGTA	CCAGAGTGTG	180
CTAAGTTATT	TCAGCAGCCA	TTACCCGCCG	TCCATCATCC	TGGCAAAAGA	ATCTTATGCT	240
GAATTAATCA	TGAAGCTCCT	AAAAGTGTCT	GCGGGCCTTT	CTATTCCTAC	TGACAGCCAG	300
AAGCATCTTG	ATGCAGTTCC	AAAATGCCAA	GCTTTTACTC	ATCAGATGGT	TCAATTCCTC	360
AGCACCCTGG	AACAAAATGG	AAAAATCACC	TTAGCAGTCC	TAGAACAGGA	AATGTCTAAG	420
CTCTTAGACG	ATATCATTGT	CTTTAACCCG	CCCGACATGG	ACAGCCAGAC	CCGCCACATG	480
GCCCTCAGCG	GTCTCGAG					498

- (2) INFORMATION FOR SEQ ID NO:1439:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 314 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1439:

GAATTCGGCC	TTCATGGCCT	AGCAGGGAGA	GGGGTTCTGT	GCTCCTGAGA	TTAGTTCAGA	60.
TGGTCTAACC	ATTGTTCTAT	ATGTGCATTT	TAGTTAATAT	TGTGTATTAA	AGGATAAGTC	120
TTAATGCTCA	AAGTATGTTA	AAAATAGATG	TAGTAAATCA	GTCCCTTTGT	GAATGTCCTT	180
TTGTTAGTTT	TTAGGAAGGC	CTGTCCTCTG	GGAGTGACCT	TTATTAGTCC	ACCCCTTGGA	240
GCTAGACATC	CTGTACTTAG	TCACGGGGAT	GGTGGAAGAG	GGAGAAGAGG	AAGGGTGAAG	300
GGAAGTGGCT	CGAG					314

- (2) INFORMATION FOR SEQ ID NO:1440:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 424 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1440:

CCAGCCGTCT	GCAGCTCCGG	CCGCCACTTG	CGCCTCTCCA	GCCTCCGCAG	GCCCAACCGC	60
CGCCAGCACC	ATGGCCAGCA	CCATTTCCGC	CTACAAGGAG	AAGATGAAGG	AGCTGTCGGT	120
GCTGTCGCTC	ATCTGCTCCT	GCTTCTACAC	ACAGCCGCAC	CCCAATACCG	TCTACCAGTA	180
CGGGGACATG	GAGGTGAAGC	AGCTGGACAA	GCGGGCCTCA	GGCCAGAGCT	TCGAGGTCAT	240
CCTCAAGTCC	CCTTCTGACC	TGTCCCCAGA	GAGCCCTATG	CTCTCCTCCC	CACCCAAGAA	300
GAAGGACACC	TCCCTGGAGG	AGCTGCAAAA	GCGGCTGGAG	GCAGCCGAGG	AGCGGAGGAA	360
GACGCAGGAG	GCGCAGGTGC	TGAAGCAGCT	GGCGGAGCGG	CGCGAGCACG	AGCGCGGGCT	420
CGAG						424

- (2) INFORMATION FOR SEQ ID NO:1441:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 346 base pairs
    - (B) TYPE: nucleic acid(C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1441:

GAATTCGGCC	TTCATGGCCT	ATAGGCCATG	AAGGCCGGCC	TTCATGGCCT	AGTCAGGCTT	60
AAGTTTAATA	AATAGCAAAT	TGCATACAGA	TATTTACAAT	GATCGAAAGA	CAAACAGAGG	120
TCCTATCCGT	GCAGTCCCAA	CAATAAAGAC	AGGCATTGGC	ATAAAGTGTT	TATAAATTCT	180
TGGGTACAGC	TGTTCTGAAA	GTAAAGTTCA	CTTTCAATCC	TAAAAAAAGT	CCGCTATTCC	240
TCCCTGGCTG	CTCTGGACTG	TCCTCATCCT	CTTTAGCTGC	TGTTGCGCCT	TCCGCCACCG	300
ACGAGCTAAA	CTCAGGCTGC	AACAACAGCA	GCGGCAGCAT	CTCGAG		346

- (2) INFORMATION FOR SEQ ID NO:1442:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 591 base pairs
    - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1442:

GAATTCGGCC	TTCATGGCCT	AGGCTTCCCT	GTTCCCTCAG	CCCCAGTCGA	GAGGAAAGAG	60
AATCGGGCCA	CTGCCAGAAA	GAGAGTCAAG	CAAACCTGGA	AGGGCAAATC	TGAGAGTGGG	120
AAGGCCAAAG	GCCGAGGCCC	AGATTTAGTA	TTCACTAGCA	GCGCCTTCGG	GTAGCAGGAT	180
GATTCCTTTT	CCTGCCTGTC	TGCTGCTGGC	TCTCTTCCCT	AAGGTACAGG	TTGGCAGGAC	240
CACCTCCGCC	TACTTCTCCA	CCATCCCTAG	CATGCCAGCC	CGTTCCCAGA	TCAACCTGCC	300
AGTGGAGTCA	GGCAGTGCAC	TCCTGGAGCC	AAGAGGGAAG	GGCAGGGTAG	AGAGGGTATG	360
TCCAGTAGCC	TGGAGCTCCA	TGGTGGCTTC	ATGCCTCCCT	TCTCCCAGCT	CAGGTGGCCC	420
TGAGGGCTCC	CTCGGAACAG	TGCCTCAAAT	CCTGACCCAA	GGGCCAGCAT	GGGGAAGAGA	480
TGGTTGCAGG	CAAAATGCAC	TTTATAGAGA	TTTTCTATTG	CTGGGAAGGT	GTGTTTCTCC	540
CACAATTTGT	TTGTGAATAT	TCACTTGTTT	TATAAATGTC	TGACCTGTCC	G	591

- (2) INFORMATION FOR SEQ ID NO:1443:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 526 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1443:

GAATTCGGCC	TTCATGGCCT	AGATTGAATT	ACCTGCCTCG	AGCTCCTGTC	CTTAGGTGAT	60
CTGCCCGCCT	TGGCCTCCCA	AAGTGCTGGG	ATTATAGGAG	TGAGCCACCT	GGCCCAGCTA	120
GCTTTTAAAG	TTCTGCCAGC	ATAGCCCCGG	GATGGGGTGG	GGGTAGACAG	GGCCTTAGGA	180
CTTTCATTTT	TAAAATGCTC	ACTCCACAGT	GAAGAAACAG	GTGATGACTA	TCCTGAATAT	240
TTGGGAAGCT	GTGTCCTAGA	ATTTTTGGCC	TCAGTTCCAG	AACCCACAGC	TTCTTTACAA	300
CATGCTTCAA	GCCTGGGACT	GAGCTGCCAG	TAAATAAACC	CCTAGTAACC	TTAATATGGG	360
TTAATAAGAT	TAGGTGCCCG	CTCTGCACGC	TCCCCTGCCC	CTCCTCGTCC	GGGCACCTGT	420
TATGCTAGGC	CAGCATGTTT	GCAGCTTAGC	CAGGGAAAAT	CGTGGACCAA	GACAGGGCTT	480
TTCATCCACG	ACTGGCTAAA	AAGATGGCTC	TCAATAATAT	CTCGAG		526

- (2) INFORMATION FOR SEQ ID NO:1444:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 279 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1444:

GATTGAATTC	TAGACCTACC	TCTCTTTTTT	TGTGGTCTCT	CCTTCATTCT	CTGTTCATTT	60
CTCCGTGAGA	TTTTCTGATT	AGTAGTTACC	TTCAGCATGC	CAGTTGACTT	GCAAACCTAC	120
AATCCAACCT	TTCTTCTACT	TTGTCATCTG	ACAACAGCCT	GGTTTGTAGC	TGATTCCAGG	180
ACTTCTTCAC	TTGGGTGGCC	ACTCTCATTA	CCACAGAGTT	CACTAGTCAT	GGTGAACACA	240
CCAGTCTTTT	ACACCTCCCT	CACTCCCAAA	CCACTCGAG			279

(2) INFORMATION FOR SEQ ID NO:1445:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 644 base pairs
    (B) TYPE: nucleic acid

  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1445:

GAATTCGGTC	TTCATGGCCT	AGGGGAAGAA	AGGCACCTTT	CTCACAGGGT	GGTGAGAGAG	60
AGGAAGGGG	ACGGGGAAAG	CCCTTTATAA	AAGCATCAGA	TCGGCTGGGC	ACAGTGGCTC	120
ACGCGTGTAA	TCCCAGCACT	TTGGGAGGCC	GAGGCGGGTG	GATCGCGGGG	TCGGGGGTTT	180
GAGGCCGGCC	TGGCCAATAT	GGTGAGACCC	CGTCTCTGCT	GAAGATACAA	AAATTGGCTG	240
GGCATGGTGG	CGGGCACCTG	TGGTCCCGGC	TGCTTGGGAG	GCTGAGGCGG	GAGAATCGCT	300
TGAGCCCGGG	AGGCAGAGGT	TGCAGTGAGC	TGAGATCGCG	CTACTGCACT	CCAGCCTGGG	360
CAACAGAGCG	AGACTCCATC	TCAAAAATAA	AAGAAAGGCA	TAAATATTAC	ATTACCCTCT	420
GAATACTGTG	GTTGTATACT	TGAGTTTTTA	TGTGTGTATA	TATATGTGTA	TAGGAGAGTA	480
TAAAATAAAA	GAAATTAGGA	TTTTGCAAGT	TATAATCATA	TAAAATTGAT	TACCCTAAAT	540
ATATCATTAG	GATATTATGT	TATTTACATC	TCTTATGCTA	ATTCTAATTT	TCTTTTATTG	600
TAGTATAGTA	GAATTGAGAT	TTGNNAATGG	AATTGGTCCT	CGAG		644

- (2) INFORMATION FOR SEQ ID NO:1446:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 756 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1446:

GAATTCGGCC	TTCATGGCCT	ACCTCACCCG	GCCCGGACAC	GGACAGGATT	GACAGATTGA	60
TAGCTCTTTC	TCGATTCCGT	GGGTGGTGGT	GCATGGCCGT	TCTTAGTTGG	TGGAGCGATT	120
TGTCTGGTTA	ATTCCGATAA	CGAACGAGAC	TCTGGCATGC	TAACTAGTTA	CGCGACCCCC	180
GAGCGGTCGG	CGTCCCCCAA	CTTCTTAGAG	GGACAAGTGG	CGTTCAGCCA	CCCGAGATTG	240
AGCAATAACA	GGTCTGTGAT	GCCCTTAGAT	GTCCGGGGCT	GCACGCGCGC	TACACTGACT	300
GGCTCAGCGT	GTGCCTACCC	TACGCCGGCA	GGCGCGGGTA	ACCCGTTGAA	CCCCATTCGT	360
GATGGGGATC	GGGGACTGCA	ATTATTCCCC	ATGAACGAGG	AATTCCCAGT	AAGTGCGGGT	420
CATAAGCTTG	CGTTGATTAA	GTCCCTGCCC	TTTGTACACA	CCAACCCGTC	ACTGACTTTT	480
ACCGCAGCTG	GAACTGTGCT	CCAGGGCCTT	TCCATCTTTT	CCCCCACACT	CCCTTTGACC	540
CTGTGTTGCC	CTCAGAGGCC	AAATTCTTGG	GCTCAGGGAC	TGGCTTTCGG	CCTATTGGTG	600
GTGGAGCTGG	GGTTCTGGCA	AGGAATTTCA	GGCAGCGCTT	GGAGGCAATG	TTCCCCGAGA	660
GCAGTTCACG	GTGGTGATGT	TGACTTATGA	GCGGGAGGAA	GTGCTTATGA	ACTCTTTAGA	720
GAGGCTGAAT	GGCCTCCCTT	ACCTGGAACT	CTCGAG			· 756

- (2) INFORMATION FOR SEQ ID NO:1447:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 359 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1447:

ACTTTGGGAA TTTGAATTT CATCAGTGCA AATATAAATT TCTCTATCCT GCTCTGAGGC TAATTGGTAC CATATTTCC CTTTGTGTCT TGTGACTCTG CCACATCCCA TCTCATCCTG GCCTCTGAGT CAAGAACCCA GTGAACTGAC TTTCTAGTTC TAGAAGTTCC GCTGCAAGGC	60 120 180 240 300 359
(2) INFORMATION FOR SEQ ID NO:1448:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 146 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1448:	
	60 120 146
(2) INFORMATION FOR SEQ ID NO:1449:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 308 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1449:	
ACAACTCTTT CAAGGAATTT CGCTATAAAT GGGAGTAGAG ATCTGAAGAC TGAATAATTA GCAAACTGAA AAGTGGGAAG ACGTAATTCT CTTATTATTT CATTTTCTT AGTGAAATAA GAGGTGAAGT TCTCTGAGTA ATAGGAGGGT CAAACAGGNG TTAGAAGTTC ACAAAGAAAG	60 120 180 240 300
(2) INFORMATION FOR SEQ ID NO:1450:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 545 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1450:	
TTCTGGGGGA GTCAGTAACT CTTCCCCTGG AGTTTCCTGC AGGAGAGAG GTCAACTTCA TCACTTGGCT TTTCAATGAA ACATCTCTTG CCTTCATAGT ACCCCATGAA ACCAAAAGTC	60 120 180 240

CAAAGACCTC TACAAGTTAC	CAGCAACCTG AAGATGGAAG ACAC TGCAAAGCTG TCCAGTTACA CTCT CAATCACAGT CAGCTATTTC AGAA GGATGCAGAT GACAATGTCT CATT	GAGGAT ATTAAGACAA	CTGAGGAACA CATCTGACTT	360 420 480 540
TCGAG				545
(2) INFORM	ATION FOR SEQ ID NO:1451:			
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 331 base pai  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ	ID NO:1451:		
GACTGAAGGG CCTCGTTTTT CCACCAAGAG CTTGATGGAC	AAAGAGGCCT ACAGTAAGCA GATG AACGAAAACT GGGTGGGTT TTTG GGACTGATAA TAATGACCTT GGTA CTTCTGATCT CATCACCTTT CCAT AGCGAAAACC CAAGTGACAC AAAG TACATGAAGG GAACCCTCGA G	CGCTTC AAAAAGGGGA ATGGCT TCTTACATCC TACGGA GGCTTCCCCA	AGCGATGTAG 1 TTTCTGGGGC 1 GCAACCCCAG 2 CCTCTGTAAA 3	60 120 180 240 300
(2) INFORM	ATION FOR SEQ ID NO:1452:			
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 263 base pai  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ	ID NO:1452:		
TCTTTGGAAC CCTTAGTCCT TGCACGAAAA	AAAGAGGGAA GGGAAAATTT CAAG CTTCAGCCCT CAAGATTCCA ACAT CATGTCACTG CTTTTGGTGC TGCC AGAAATGGAC AGATGTGACT TTGA TGCAGCACTC GAG	CATGAC CTCAGTTTCA TGTTGT GGAAGCAGTA	ACACAGTTGT 1 GAAGCGTATA 1 AACCTCACCC 2	60 .20 .80 .40
(2) INFORM	ATION FOR SEQ ID NO:1453:			
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 558 base pai  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear			
(ii)	MOLECULE TYPE: cDNA			
(xi)	SEQUENCE DESCRIPTION: SEQ	ID NO:1453:		
TTTGTTTATT GCATACCTGG	AAAGAGGCCT AATTTTAAAG CCCTTTTATGGTCT TTTTTCATCC TGATTAAATATTTTA TTGAATCCTT AGTACTTTTCTCTCTA AGACGACTAA GCCTTTTCTCTCTA AGACGACTAA GCCTTTTCTCTCTA AGACGACTAA GCCTTTATCTCTCTAA AGACGACTAA GCCTTTATCTCTCTAA AGACGACTAA GCCTTATAA	TTTTGG TCATTTGGTC CTGTAC ATGAAAAATT	CCGTCTTATG 1 GTAGAGGCCC 1	60 .20 .80

GGTTATATAC	CTTACTCCAA	TCAAAGATTG	AGCTGAGTCA	GAACTCTAAG	GGAGTTAAGT	300
TTTTGTGTCC	TCTGGGGACC	AGGGGTTCCA	ACTAAGACTG	TGATATTCAC	CAGGATCCAA	360
TTTCCCGATG	CCTCTTGAAC	TCTTATTCTT	ATCTTTTTAA	CACATCAAGG	CAGCTGGTTT	420
GCATTTTTCT	TTCTGTTCAG	CTTTTTAGCT	TCATCCTTTG	CAGCTTTAGA	AATTGACAGT	480
TGTCTTACAG	GGAAAAGTAG	CTGTGTAACA	AGCTCATGTC	TCTGCCTCTC	TTCCACTGAT	540
ATCTTAGCCC	CGCAGGAG					558

- (2) INFORMATION FOR SEQ ID NO:1454:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 328 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1454:

AAAGAGGCCT	ACCTAAACCG	TCGATTGAAT	TCTAGAAATA	CAATGATTTT	60
FCCAAAGGCT	TTTTCTTTTT	TTCTTTTTTC	TNGAGACAGG	GTCTCACTCT	120
CTGGAGTGCA	GTGACACAAT	CTCGGCTCAC	GGCAAGCTCC	GCACTGCCCC	180
CGCCATTCCT	CCGCCTCAGC	CTCCCGAGCA	GCCGGGACCA	CAGGCACGCG	240
CAGCCAACTT	TTACATTTTT	AGTAGAGACG	GGGCTTCACC	ATGTTGGCCA	300
GGTCTCTTCT	GCCTCGAG				328
	rccaaagget etggagtgea egceatteet eagceaactt	CCCAAAGGCT TTTTCTTTT CTGGAGTGCA GTGACACAAT CGCCATTCCT CCGCCTCAGC	CCAAAGGCT TTTTCTTTT TTCTTTTTC CTGGAGTGCA GTGACACAAT CTCGGCTCAC CGCCATCCT CCGCCTCAGC CTCCCGAGCA CAGCCAACTT TTACATTTTT AGTAGAGACG	PCCAAAGGCT TTTTCTTTTT TTCTTTTTTC TNGAGACAGG CTGGAGTGCA GTGACACAAT CTCGGCTCAC GGCAAGCTCC CGCCATTCCT CCGCCTCAGC CTCCCGAGCA GCCGGGACCA CAGCCAACTT TTACATTTTT AGTAGAGACG GGGCTTCACC	AAAGAGGCCT ACCTAAACCG TCGATTGAAT TCTAGAAATA CAATGATTTT CCAAAAGGCT TTTTCTTTTT TTCTTTTTC TNCAGACAGG GTCTCACTCT CTGGAGTGCA GTGACACAAT CTCGGCTCAC GCCAAGCTCC GCACTGCCCC CGCCATTCCT CCGCCTCAGC CTCCCGAGCA GCCGGGACCA CAGGCACGCG LAGCCAACTT TTACATTTTT AGTAGAGACG GGGCTTCACC ATGTTGGCCA GGTCTCTTCT GCCTCGAG

- (2) INFORMATION FOR SEQ ID NO:1455:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 481 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1455:

GAATTCGGCC	AAAGAGGCCT	ACTTGATGTC	TGTGACCCAC	ACNTATTCGC	ACACTCCCTC	60
CCCTTTTGAA	AATCCCTAAT	AAAAACTTGC	TGGTTTTTGC	GGCTAGTGGG	GCATCATGGA	120
ACCTACTGAC	ATGTGATGTC	TCCCCCGGAT	GCCCGGCTTT	AAAATTTCTC	TCTTTTGTAC	180
TCTGTCCCTT	AATTTCTCAA	GCTGGCCGAT	GCTTAGGGAA	AATAGAAAAG	AACCTAGGTG	240
AATATTGGGG	CAGGCTCCCT	GATGAAATGA	TATATATTCT	TAAAATAAAC	TTTTCATCTT	300
TGCATATACG	TTTATATGCC	GAGTTTTCTC	CAACCTTGTC	TTACAGCACT	TTGTATACTA	360
CATTCTAGCC	ATACTAAACT	CTTGCAGTTC	CTGAGACATG	TGCTGTATCC	TATTTCTTCT	420
GGTCCTTTTC	TCATTGATTA	ACTACCTGGA	GCATACTTTT	AATTCAGTGT	CAGCGCTCGA	480
G '						481

- (2) INFORMATION FOR SEQ ID NO:1456:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 393 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1456:

GAATTCGGCC AAAGAGGCCT ACTTCACCTT CAAGTCCCCT TTCTCAAGAA TCCTCTGTTC
TTTGCCCTCT AAAGTCTTGG TACATCTAGG ACCCAGGCAT CTTGCTTTCC AGCCACAAAG

AGACAGATGA AGATGCAGAA AGGAAATGTT CTCCTTATGT TTGGTCTACT ATTGCATTTA

60 120

180

240 300

180

GAAGCTGCAA CAAATTCCAA TGAGACTAGC ACCTCTGCCA ACACTGGATC CAGTGTGATC TCCAGTGGAG CCAGCACAGC CACCAACTCT GGGTCCAGTG TGACCTCCAG TGGGGTCAGC ACAGCCACCA TCTCAGGGTC CAGCGTGACC TCCAATGGG TCAGCATAGT CACCAACTCT GAGTTCCATA CAACCTCCAG TGGGATCAGC ACG	240 300 360 393
(2) INFORMATION FOR SEQ ID NO:1457:  (i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 266 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1457:	٠
GAATTCGGCC AAAGAGGCCT AGTGTGTGT TGTGTGTGT TTTATCTCCTT CAACTCTGAC CACCTGGAAG TCAGCCTAAT CTCTGCCCTC GTGTTGATCT TTAATTCAAC ATTTAATTAC CTATCTTGGT ATCCATATGA ATTTGATTGT TTTTTTTGGCT TTTTTTTGAAC TCATAAAAGG TATCCAAGTT CCTGGAGGGC ATAGTGCCCA TCTCCTCCCA TCCACCAGTG GACATTCTTT TCCAAAAAGAC ACATGG  (2) INFORMATION FOR SEQ ID NO:1458:	60 120 180 240 266
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 292 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1458:	
GAATTCGGCC AAAGAGGCCT AGGTTGTAGT TACTTTCAGA GTAGATACAG GGTTTTAGAT CATTACAGTT TAAGTTTTCT GACCAATTAA AAAAACATAG AGAACAAAAG CATATTTGAC CAAGCAACAA GCTTATAATT AATTTTATT AGTTGATTGA TTAATGATGT ATTGCCTTTT GCCCATATAT ACCCTGTGTA TCTATACTTG GAAGTGTTTA AGGTTGCCAT TGGTTGAAAA CATAAGTGTC TCTGGCCATC AAAGTGATCT TGTTTACAGC AGTGCTCTCG AG	60 120 180 240 292
(2) INFORMATION FOR SEQ ID NO:1459:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 289 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1459:	
GAATTCGGCC AAAGAGGCCT AGTTTTATGA GAGGGTTTCC ATTAAGAAGT TAATTGAAAT TCTTTATTTA TGTAAAATGA AATTTCCAAT TAAATTATTT CACACAGCAT TTTTTCCCCT	60 120

TAATTTCATT AGTTTTTTTA TTTCTTGGCC GACCCAGGCC AGGAGCTTAG GGAAAATGAT

	ACGCTGTA GTCCTGCAAA T GACTGACA CATGGGGTAC A			CCCCTGCTCA	240 289
(2) INFORMATI	ON FOR SEQ ID NO:1460	):			
(i) SE	QUENCE CHARACTERISTIC (A) LENGTH: 330 base (B) TYPE: nucleic aci (C) STRANDEDNESS: dou (D) TOPOLOGY: linear	pairs id			
(ii) Mo	LECULE TYPE: cDNA				
(xi) SI	EQUENCE DESCRIPTION:	SEQ ID NO:1	1460:		
CTAGGTGCCT TA PTTTACTCTC CC PCTATTGGAT TA ACCAGTCTGC AA	AGAGGCCT ACACCTGCGT T ATTAATAA AGCCAAAATA T ATTTTTAA TTAATCTTTC C ICTCAGGT ATCTAATCCA A ITCCTAAG GTTTTGTTTC T GCAGGTCT AGAATTCGAG	CTTTCCACT CTATTTCATT CATTCACTACT	AGCAAACTAA TCACCCTCTC GTTTAATGAA	TCGTATTCAC ATCTCTTTCC TGTAATTGCA	60 120 180 240 300 330
(2) INFORMATI	ON FOR SEQ ID NO:1461	. :			
(i) SE(	QUENCE CHARACTERISTIC.  (A) LENGTH: 383 base  (B) TYPE: nucleic aci  (C) STRANDEDNESS: dot  (D) TOPOLOGY: linear	pairs id			
(ii) MC	LECULE TYPE: cDNA				
(xi) SI	QUENCE DESCRIPTION:	SEQ ID NO:1	1461:		
TAGCATTACT GA AACGGCATCT AC ATTCGATAAC AA GTGTTTCTCC AG	AGAGGCCT AGGGACAGTG A CTTTAAAT TTTTTGAGCC T CAAAACCA GCTGCAAAGA T CGAGTTGG GAAATAGGTA A GCCAAAAC CAGCAGCTGA T ATGCCAAG GAAGAGATTT T CCCAACTC GAG	'ATCTAAAGG 'AGAAGCGGA 'AATAATAAC 'TTGGATACC	CCAGATGCTA ACAACTGGTT ATGGGGTAGA ATCAAGATAC	TCAGCAGCTG TGGTGGAGAG GGTTATGCTT CTGAAAACTT	60 120 180 240 300 360 383
(2) INFORMATI	ON FOR SEQ ID NO:1462	::			
(i) SE(	QUENCE CHARACTERISTIC (A) LENGTH: 375 base (B) TYPE: nucleic ac: (C) STRANDEDNESS: down (D) TOPOLOGY: linear	pairs id			
(ii) M	DLECULE TYPE: CDNA			•	
(xi) Si	QUENCE DESCRIPTION:	SEQ ID NO:	1462:		
IGGTGAGGGC TT AGAGAAGATT CT ACATGATTTC CC	AGAGGCCT ACGATGACGT C CTGGACTG GATGGAGGAC C CACCATCG CTGATTCACA C AAAGTGTT AGAGCTGAAG I CATCTGTG GATAGACAGG I	CTGAAGACAT CAAAAGCATT CGTGTTTCCT	GAGGTGGAGG TCTCCAAGTG TGTGTATATA	CACAGGTAGA GTTGCAGATG TACTGTGGTT	60 120 180 240 300

TCATTGTGGT TTTCTGTCTG AAGAGTATCC CAGTATGTAC CTGTGGAGCA GCTTCTTAT CCCTTCTTAC TCGAG	360 375
(2) INFORMATION FOR SEQ ID NO:1463:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 174 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1463:	
GAATTTGGGC GGAGACACAA ATTCAAATCA TATCAACCTG GTAAAGAATT TGGATTTTAT TTTGAGTGTG TTAGTGAGTA TTGCATGGCT TTGAGCAGAG AAAGGATGAT TTATATGTTT AAAAGAGTGC TTTGCCTCTT ATATGTGGAA GAGATGTAG GAGGAGGACT CGAG	60 120 174
(2) INFORMATION FOR SEQ ID NO:1464:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 122 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1464:	
GAATTCGGCC AAAGAGGCCT AGTTGCGGTT TAAATTTCCA AATGTATGGC ATTTGCTTGT TTTTTAAGTT GATTTCTAGT TTTATCACAT TGTGGTCAGA GAATGCTGAG AAAGAGCTCG AG	60 120 122
(2) INFORMATION FOR SEQ ID NO:1465:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 315 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1465:	
GAATTCGGCC AAAGAGGCCT ACTTGAGCTT TTTTCATGTG TATATATTTA TGCTTCTTTT CTAAAAAAAA TTGAGATGGA AATTCACATA ACAGAATTAA CTAAAGCATA CATTTCATTG GTATTTACTA CATTCACAAT GTTGTGCAAT CATTACCTCT CTCCAGITCT AAACATTTCA TCACCCCAAA AGGAACCCCT AAGCGGTCAC TCCCCACTCC ACTGTCTCCC ACAGCCCCTG GCAACCAGCA GTCTGCTTTG TGTCTCAATG GATTTACCTA CTCTTGATAG CTCTACAAAT GGAACAATAC TCGAG	60 120 180 240 300 315
(2) INFORMATION FOR SEQ ID NO:1466:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 175 base pairs  (B) TYPE: nucleic acid	

- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1466:

GAATTCGGCC AAAGAGGCCT	AGGTAAGAGA	AACGACCAAT	TCTACCAGTT	ATTCTACAAT	60
GTGGGTTTTC ACTGCTCTGT	TCACATGCCT	TATTCAGACT	TCTTGTGGTG	GTCAATTGCT	120
AGATGGTCTG TTGGAATTAT	CTGCTGTCAT	ACATCCAAAA	AGGTCTCACA	GAGAG -	175

- (2) INFORMATION FOR SEQ ID NO:1467:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 350 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1467:

GAATTCGGCC	AAAGAGGCCT	AGAAGGACAC	CTCCATCCAT	TCCACGCAGT	TGCTCAAAGC	60
AGAAATTTTC	AGTGCAAGTC	TTGATGCTGC	GCCGTCCCCC	ACTCCCTACA	TCAGAACGCA	120
TCCCTCATCT	GGACTCCAGC	GGTGGCTTCT	TGATGCTGCG	CGGTCCCCCA	CTCCCTACAT	180
CAGAATGCAT	CCCGCATCCA	GACTCCAGCG	GTGGTGCTCT	ACCTGCACGC	TGTTGCCAAG	240
TCCAAGCTAC	CATACTCCTG	CCTGAGCTAT	GACAACAGCC	TCCTCACTGA	TCTCCCCTTT	300
CTTCCCTTTG	CCTCCTCCAG	CTCATTTTTC	ACAGTGTAGA	ATGACTCGAG		350

- (2) INFORMATION FOR SEQ ID NO:1468:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 419 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1468:

GAATTCGGCC	AAAGAGGCCT	ACTATACTAA	AATTCTGTGC	AAAAAGATGC	TTGAAATTAT	60
TGTAGAGACT	GAATCTTTGC	TGCTTGTTAT	AAATATTGCA	GGGCATAAAC	CTTCCATTCA	120
TAGGTTCATC	AGCTTTTATG	ATTGGGAGTG	ACAGGGAGGC	AGCATTGCAG	TCCTTAGTCC	180
TAGGTGTGGT	CTAGAATTTA	CCCTGTATTT	AAGTCACTTT	GGAATAGAAG	TTTTTTTTCT	240
CGGACAGGAT	ACACTATATA	TTTTTAAATC	TCCTCCCATA	GTCGTAGTGC	AGAGATATAA	300
ATAGAAGTAC	AGGTAAGAGA	TGTCTTCTGC	CTTTCAAACC	CTTCCTAAGT	TTGTGTGCTG	360
CTTTAACTTT	ATTCACATAG	AGCAGTCTGT	TTTATTACTC	AGGATATGGG	CCACTCGAG	419

- (2) INFORMATION FOR SEQ ID NO:1469:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 612 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1469:

GAATTCGGCC	AAAGAGCGAT	GGGGACAAAG	GCGCAAGTCG	AGAGGAAACT	GTTGTGCCTC	60
TTCATATTGG	CGATCCTGTT	GTGCTCCCTG	GCATTGGGCA	GTGTTACAGT	GCĂCTCTTCT	120
GAACCTGAAG	TCAGAATTCC	TGAGAATAAT	CCTGTGAAGT	TGTCCTGTGC	CTACTCGGGC	180
TTTTCTTCTC	CCCGTGTGGA	GTGGAAGTTT	GACCAAGGAG	ACACCACCAG	ACTCGTTTGC	240
TATAATAACA	AGATCACAGC	TTCCTATGAG	GACCGGGTGA	CCTTCTTGCC	AACTGGTATC	300
ACCTTCAAGT	CCGTGACACG	GGAAGACACT	GGGACATACA	CTTGTATGGT	CTCTGAGGAA	360
GGCGGCAACA	GCTATGGGGA	GGTCAAGGTC	AAGCTCATCG	TGCTTGTGCC	TCCATCCAAG	420
CCTACAGTTA	ACATCCCCTC	CTCTGCCACC	ATTGGGAACC	GGGCAGTGCT	GACATGCTCA	480
GAACAAGATG	GTTCCCCACC	TTCTGAATAC	ACCTGGTTCA	AAGATGGGAT	AGTGATGCCT	540
ACGAATCCCA	AAAGCACCCG	TGCCTTCAGC	AACTCTTCCT	ATGTCCTGAA	TCCCACAACA	600
GGCGCACTCG	AG					612

- (2) INFORMATION FOR SEQ ID NO:1470:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 220 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1470:

GAAAAGCCAA	GACTTTAACT	TTCATTACAT	ATCTAATAGT	TGATATCACC	AGTTACCATT	60
TTGAATTTTG	TATAGTACTA	GGTTAGAACA	TTGCTTAATC	CTTTTAAAAA	AAATGCATTT	120
ACGTAGAACT	CGAGCAGGAT	GTTTGGCCCC	GATGTTTTTT	CTTCATACTC	TTCTGTCGCC	180
TCCTCCCATT	TCTGCACAGT	TCTCACCCAC	TACTCTCGAG			220

- (2) INFORMATION FOR SEQ ID NO:1471:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 349 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1471:

GAATTCGGCC	AAAGAGGCCT	AGGGCATCAT	GCAGACACAT	CTGTTAAAGC	AGGAAAAAAA	60
AAACCATGTG	GAAGATTAAG	CTAGGCAGAG	TGCCTGAAAA	GCCCTCTGCA	ATAAGTTGAG	120
CTGGAAAAAC	CTCCATATCT	AAAGATGCTT	TAATCATCTC	AAGAACACCA	ACAACATTTT	180
CTATTATAAT	ATAACTATGA	TAGATGTGAA	TCTACCTCTT	GGATTAAGGC	AATAATTTTA	240
TAGCTATCAA	ATTTTCACAG	ACACCATTTT	CACTACTCTG	AGTTGCATCT	CTAACAAGCT	300
TCTTTAGCCT	CTGCCTACAG	ATTTCAGTGA	CAAAGCCATT	CAGCTCGAG		349

- (2) INFORMATION FOR SEQ ID NO:1472:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 310 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1472:

GAATTCGGCC	AAAGAGGCCT	ACAACAAACC	ATTCTTCAGC	ACCTTTGCAA	AAACATCTAT	60
GTTTGTTTTG	TACCTTTTGG	GCTTTATTAT	TTGGAAGCCA	TGGAGACAAC	AGTGTACAAG	120
AGGACTTCGC	GGAAAGCATG	CTGCTTTTTT	TGCAGATGCT	GAAGGTTACT	TTGCTGCTTG	180
CACAACAGAT	ACAACTATGA	ATAGTTCTTT	GAGTGAACCT	CTGTATGTGC	CTGTGAAATT	240
CCATGATCTT	CCAAGTGAAA	AACCTGAGAG	CACAAACATT	GATACTGAAA	AAACCCCCGC	300
GGTACTCGAG						310

- (2) INFORMATION FOR SEQ ID NO:1473:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 297 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1473:

GAATTCGGCC	TTCATGGCCT	ACAACTTTAA	GATTAGCTAC	TTTGAATAAT	CTCAGTAGGT	60
TCTGGGGCAC	AGGAGCTGCC	CCTCTTGGTC	TGAGATTTGG	CCATGGGGTG	ATTAGGACAG	120
GTATAGTGGC	ACAGAGTGTA	AAAACCCCAT	AATGGTGTGG	ATTCTGGATT	GCTTAGTTTG	180
CATTTGACAA	GTGCATGCCT	GGGAGGAGGA	CTCCTCTTAG	TAAAGAGGAT	GGGAGGCAAG	240
AAGAGAGGCC	AGAGGCCAAG	ACAAGGTAAC	TTAGGCATAG	CATCAGGTTG	TCTCGAG	297

- (2) INFORMATION FOR SEQ ID NO:1474:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 510 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1474:

GAATTCGGCC	TTCATGGCCT	AAAAAAGTAT	GCAACACTCA	GTTTATTTAA	TACTTACAAG	60
		GAAAACCACA				120
		GCGTATGCCT				180
GAAAACAAAG	GCAATGATCC	TAATGTAAAC	ATTGTACCTA	AAGATGGCAC	AGGGTGGGCA	240
		AGAAGAAAAA				300
		AGAAGTAGCA				360
		AATCCAAGTG				420
CTGCAGGCAG	CTGGGGATCA	GGAAAAAAAA	GAAAAGGAAA	CAAATGATGA	CAACTATGGA	480
CCTGGACCCA	GTTTACGTCC	ACCACTCGAG				510

- (2) INFORMATION FOR SEQ ID NO:1475:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 400 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1475:

GAATTCGGCC	TTCATGGCCT	AATCCATTCA	TTTGATGGAC	ATTTTCTAAG	TACCTGTGAG	60
CCAGGTGCTG	CCATTTCAAA	GTCTCTTCTT	ACCACGCTCC	TCAGTGGCTA	GACATTTTCA	120
CGTGGCCAGA	AAGTCCCGAC	TCTTGCTGGG	CGTCCCTGGA	CAAGTTGCCT	TCCTCCTCTG	180
					CGGAAGGGCC	240
GATGCGAAGC						300
					CATTCGTGTG	360
TGTGGATCAG						400

## (2) INFORMATION FOR SEQ ID NO:1476:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 465 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1476:

60
20
80
40
00
60
20
65

- (2) INFORMATION FOR SEQ ID NO:1477:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 377 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1477:

GAATTCGGCC	AAAGAGGCCT	ACATGTAGCT	ATCCTAAGAC	GTATTTTATT	TTGAGCCACT	60
TTCTCAGAGG	GAATTGGGTG	GGTGTGGTCG	TAAGAACACC	TAGAAAATAG	GGGTGAAACC	120
TTTATGGGGC	CAGGGGAGCC	ATGGCAGAGG	GTGGAGTGGG	GGATAGAAGC	CTTCAGACTC	180
CTCCGCCCCA	GCCACTCTGC	ACCTGGGGCC	TTTCAGCTGT	TAAAATGAAA	AGCCAATTAT	240
		AAAGAAGGAA				300
ATAACACTTC	AAATAAAAGG	ATATATAAGC	ACTTGACAAA	TTGAGGGAGA	AGGAGGGGAG	360
AGTGCTGGGC	GCTCGAG					377

- (2) INFORMATION FOR SEQ ID NO:1478:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 280 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1478:

GAATTCGGCC	AAAGAGGCCT	AGAGATTCAG	TTTATTCTAT	ACTCAGACTT	TGGTATCCCC	60
TTAGATGCCC	ATGTCAAAAA	TGAGAAAGTT	GGTGACATGG	TATGGCATTT	TATTGCTTTT	120
TGTTTGTTTT	CCATTGCTAC	TTTCACTCAA	ATTCCAAGGA	AATCACAGAA	GAAGGGCTTT	180
TGGTGACCTA	AAAGTAGAAA	TGAAAGCAAC	AAAATGCATT	CTGTCCAGCA	GTACACTGAA	240
GACAAAAAAT	${\tt GTAGTTGAAA}$	${\tt AGTCTCAGGG}$	AGCGCTCGAG			280

- (2) INFORMATION FOR SEQ ID NO:1479:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 491 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1479:

GAATTCGGCC	AAAGAGGCCT	AATTTGCTTT	GCCCAGTAGT	TGGAAAGTGA	ACTCGACTCG	60
TGATGGTTCT	CCTGTCACTT	TGGTTGATAG	CAGCCGCTCT	GGTAGAGGTT	AGGACTTCAG	120
CTGATGGACA	AGCTGGTAAT	GAAGAAATGG	TGCAAATAGA	TTTACCAATA	AAGAGATATA	180
GAGAGTATGA	GCTGGTGACT	CCAGTCAGCA	CAAATCTAGA	AGGACGCTAT	CTCTCCCATA	240
CTCTTTCTGC	GAGTCACAAA	AAGAGGTCAG	CGAGGGACGT	GTCTTCCAAC	CCTGAGCAGT	300
TGTTCTTTAA	CATCACGGCA	TTTGGAAAAG	ATTTTCATCT	GCGACTAAAG	CCCAACACTC	360
AACTAGTAGC	TCCTGGGGCT	GTTGTGGAGT	GGCATGAGAC	ATCTCTGGTG	CCTGGGAATA	420
TAACCGATCC	CATTAACAAC	CATCAACCAG	GAAGTGCTAC	GTATAGAATC	CGGAAAACAG	480
AGCCACTCGA	G					491

- (2) INFORMATION FOR SEQ ID NO:1480:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 523 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1480:

GAATTCGGCC	AAAGAGGCCT	AATTCATTCA	GTCGTCATGA	GTTGAGTGCT	TACTACATGC	60
AAGGCACTCT	GCTAGTTATA	TTCTAATAAT	GCAGAGATAA	TTAGACATGG	TTCCCGCCCT	120
CAAGAAGCTC	ACAAAAGTAT	TCAGGAAATA	ATGCAGACTA	GTGATTTTGC	ATTAAAATTA	180
TTTTTGAAGG	AAGCAGACAC	AGCAGTATTT	ACCTGTAGGT	GGAGCAAGTA	ATAAGCCATG	240
CTGTGCAATA	TATACATAAA	GCTTCTGCTT	CTCATGGGAA	TTTAGTTACA	GTGCTTGGAA	300
TGAGAAGGGG	AAGGAAAGAA	TTAACAAATG	CCAAGATTTC	TGGAGCAGAT	TGTACAGCTG	360
TGACTTTGGA	AAACAGAAAG	TAAGACCCTC	AGAAAACCAA	TGAAGTCTAA	GAGAAATAAA	420
ATTTAGTGGA	CAGGTATGAA	AAGTGTAATT	GCGCCTAACT	ACCAGATGGA	GACCTTCAGA	480
ATGGGCTATC	CTTAGAGTCT	AGTACATCAA	GAGACCCCTC	GAG		523

- (2) INFORMATION FOR SEQ ID NO:1481:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 104 base pairs
    - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1481:	
GAATTCGGCC AAAGAGGCCT AAAAAAAAAA AAAAAAGAAG ATATAAGCTA CTAGTATCAA AAATGAAAGA GGGGCTGTTT CTACTGATCC TGCAGACACT CGAG	60 104
(2) INFORMATION FOR SEQ ID NO:1482:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 337 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TC:OLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1482:	
GAATTCGGCC AAAGAGGCCT AAACTGAACT AAGAGATGCA CCTGAGAAAA CCTTGGCTTG CATGGGTTTG GCAATACATC AGGTGTTAAC TAAGGACCAT GAAAGGCATG CACATATTCA TGCAAGGCCAG GAAGGATTGT CTAATGATGG AGAAACAATG GTAAATGTGC CACATATTCA TGCAAGGTGA GGAATTGAT GTATTAAAAAT ATTACTTAGA ATGGGACATT GAAGGCCATT TAAGAATGAA NACGCTCATT TTATAAAAAT GAGGAAATCA GTAAAAAGGA CATGAGTTCC TTGCCATCTC ATTGATCATC ACACTGAACA ACTCGAG	60 120 180 240 300 337
(2) INFORMATION FOR SEQ ID NO:1483:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 168 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	,
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1483:	
CGATTGAATT CTAGACCTGC CTCGAGAGCG CGCTGTTGAA TACCCAGTAT GATGGTCCTT AGCCTTCTTA GACCTTTCCT GTACCACTAC CTCTATGCCT TTTGCCAAGT CCAAGTGTTC ACCAGAAATG GAACTGATGC CAGAAAGACT ACAGCAACAA TACTCGAG	60 120 168
(2) INFORMATION FOR SEQ ID NO:1484:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 478 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1484:	
GAATTCGGCC AAAGAGGCCT AGCAACCGCG CCTGGCTGCC TTTTCATTTT TAAAAACGTC	60

AGTGTCGCTC	CCACACAACA	TGCAAACCCT	CCTGCCGAGC	TGCGACCTTC	GCCTGTCACG	120
${\tt GAACCTGGTG}$	CTGAGTGTGG	TGAGAGTGAA	TCCTGCAGCA	CGTGGCGCAC	TGTCGGCCTC	180
TTTCATGTTT	AGCTTTTGAT	TGTGCTTATT	GTCCATTTGT	ATTTCTTCTT	CTAAGTGTCT	240
GTTCAAGACT	TTTCCGTCTT	GGCTGGAGGT	GGGAGGTGCC	TGCTCCTGTG	TTTTCTGGCA	300
TCTTTCTCTG	CTGTCTTTGT	GTGTCTGCAC	TCAGGGAGTT	TCCCTGGGGT	GTGTGCCTAG	360
AGAGGTGCTG	GTTGTACATT	TCAACGTAGG	GACAGATTCC	CAGCGTGTCT	TTAAAGGAGC	420
TGTGCCGCTG	TGTGCTCACT	TGACTCGCCG	GCGTTCTTGT	TTCTCCAGGC	CTCTCGAG	478

- (2) INFORMATION FOR SEQ ID NO:1485:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 307 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1485:

GAATTCGGCC	AAAGAGGCCT	ACACACTGCA	AGAACAGAGC	CAAGAACCTA	CCATGTACCC	60
TTTACTTGGA	TTTATCATTA	CTGTTTTGCA	CATTTGCTTT	ATCATTCTTG	TTATATTTAC	120
ATATAGTTCC	TTCCCCTTGG	ATTATTTGAG	AACAAACTGC	AGAACTCACA	CCTCTTTCCC	180
CGAAGAACTA	GGCATTAGCA	CATTACAAGA	ATACGATGAT	AGAGATCAGA	AGTTAAATGC	240
TGATGAGATA	TTCCTGTCTA	ATCCACGAAC	CTTATTTCAT	TGTCATCAGT	TGTCCCAACA	300
GCTCGAG						307

- (2) INFORMATION FOR SEQ ID NO:1486:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 579 base pairs

    - (B) TYPE: nucleic acid (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1486:

GAATTCGGCC	AAAGATTGCT	GTCCTTCAAC	GTGTTCATTA	TGAAGTTATT	AGTAATACTT	60
TTGTTTTCTG	GACTTATAAC	TGGTTTTAGA	AGTGACTCTT	CCTCTAGTTT	GCCACCTAAG	120
TTACTACTAG	TATCCTTTGA	TGGCTTCAGA	GCTGATTATC	TGAAGAACTA	TGAATTTCCT	180
CATCTCCAGA	ATTTTATCAA	AGAAGGTGTT	TTGGTAGAGC	ATGTTAAAAA	TGTTTTTATC	240
ACAAAAACAT	TTCCAAACCA	CTACAGTATT	GTGACAGGCT	TGTATGAAGA	AAGCCATGGC	300
ATTGTGGCTA	ATTCCATGTA	TGATGCAGTC	ACAAAGAAAC	ACTTTTCTGA	CTCTAATGAC	360
AAGGATCCTT	TTTGGTGGAA	TGAGGCAGTA	CCTATTTGGG	TGACCAATCA	GCTTCAGGAA	420
AACAGATCAA	GTGCTGCTGC	TATGTGGCCT	GGTACTGATG	TACCCATTCA	GGATACCATC	480
TCTTCCTATT	TTATGAATTA	CAACTCCTCA	GTGTCATTTG	AGGAAAGACT	TTATAATAAA	540
ACTATGTGGC	TAAACAATTC	GAACCCACCA	GTCCTCGAG			579

- (2) INFORMATION FOR SEQ ID NO:1487:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 352 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1487:

GAATTCGGCC	AAAGAGGCCT	AGATTGAATT	CTAGACCTGC	CTCGAGAGTC	ACCCTTAGTT	60
TGCCATTGTG	CCAGCTAGTG	ATATTGCTGA	TGTTTTTGT	GGGTGTTCTT	TTAGCAAAAC	120
GTGAATGAAT	GCATGTTTAC	AGGGATGCTC	TGGACTGGAG	GATGGTGAAA	TCCATCGTGG	180
TTGTCCCTCT	CCCTGAATGT	CCTTTTGTAG	CCAGGGCATC	TTTCCAATAT	GAATTATTAA	240
GCCTTAACTT	ACATTTTTGC	ATAACTTATA	ACTCTCCATT	ATATATTTGG	TTACATTTCT	300
TAGATGTTTT	CAACATTCTT	TATTAAAGTT	ATTTTATCAG	CATCCGCTCG	AG	352

- (2) INFORMATION FOR SEQ ID NO:1488:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 422 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1488:

GAATTCGGCC	AAAGAGGCCT	ACAAATGGGC	AGAAGTGAAA	CAGTCTTGTG	AGATACCTGT	60
TTTTTAAAAC	TCCATTTTAG	AAAAGGAATT	AACTAGGACT	TTATATCTCT	TCGTTCAATA	120
AAATTTTAAA	GAAGAATTGT	TGAAAAGTAG	ATATGTTTTG	CCATTTGCTG	AGAATATTTT	180
GTACGTTAGC	TTGTCTCTTA	CAAAAACTAA	ATGTGTTCCT	ACTTCTGATA	ATGTATGTCA	240
ATTTAAAATT	TGGAATGGCC	AAGATAAGTT	GCTCTGCATC	TGTCCTTCAT	ATGGCTCCTG	300
AGCACAGCTC	AGTGACTGGC	CCTTGCAGTG	CTTCTACCGT	TGTAATGGGT	AAAACCAGGG	360
GAAACTGCCT	TGCTCTTGAG	CTTGAGCAGG	TTAATCAAAA	GGATAGAGCT	TCCACTCTCG	420
AG						422

- (2) INFORMATION FOR SEQ ID NO:1489:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 293 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1489:

GAATTCGGCC	AAAGAGGCCT	AGAGAAAGAG	AGAAAGAAAG	GAGGGAAGGA	AAGGAAGGAA	60
GGAAGGAAAG	AAGGAAAGAA	GGAAAGAGAG	GAGACTGAAG	GGCCAAGGAG	GGCATACAAT	120
GGAAGATGAG	AGCTGTGCTC	CCGGGAGGCT	TGTACTCATC	AAGAAAGAAA	GGAGAAAGAG	180
GGGGAAGAAA	AGAAAAAAA	AGAATAAAGA	AAGGAGAGAT	GAAGGAATAA	AGGAAAAAA	240
GTAGAAAGGA	AAGAAGGAGA	AGGGAGAGAA	GAAAGTAGGA	AGGAGAACTC	GAG	293

- (2) INFORMATION FOR SEQ ID NO:1490:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 250 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1490:

GAATTCGGCC	AAAGAGGCCT	AGTGCAACTA	CAGATAAGTA	AACTTCGACT	GGGTTTAGTA	60
ACACCTGTCT	TTAATATTTG	TCAGTGTACC	TACATTGATA	ACATTGACCT	TTGGAAAAAT	120
TGGACTTGTA	TTGTGTTATT	TCTCTAGCAT	ATTAGTCCTA	AAAAAGTGTG	AGTAATAGGA	180
GATGGAGAGG	TGTTTGTGGA	TTGTCATTCT	GTGGTTCCTA	CAGCATTCAA	GTTGCGTCCG	240
TACGCTCGAG						250

- (2) INFORMATION FOR SEQ ID NO:1491:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 435 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1491:

GAATTCGGCC	TTCATGGCCT	AATTCTTAGA	AATAAAGCCA	CTATCATGCA	GGTTATTTAC	60
AAGTAAAAAC	ATGGAGTCAG	CCCAGTAGAG	AAACGTTCAA	ATAGTGTGGC	TCCTGCTCTG	120
CCACGTTCTG	TTTATGACTT	TGGATATTTT	ATTTATCCTT	TCTGGGGTAG	TTTTTCAACT	180
TTAAGGTCCT	AATAAACTTT	TAGATTTTAT	GACCTGTCCT	CTTTAGCCCT	GTAAGATTTA	240
AATATTATAA	AGAACCTGAT	TTCAAAGACA	CTGGTAAACT	TGGACAACTA	AACAAGTCCA	300
AGTATGGTAC	TTATTTGTGT	GTGTGCATAT	ATTAACCTTA	TGCATATGCT	GTTTTCACAC	360
CTATTTAAAC	TGTTTTTGAA	AAACGTATAT	ATCAGTTTTT	GGAAAACAGA	AGAAGATTTT	420
AAACGGCTAC	TCGAG					435

- (2) INFORMATION FOR SEQ ID NO:1492:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 360 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1492:

GCGATTGAAT	ACATGTTCAA	TAAGGACAAT	GGACAGGCAC	CTTTTACCAT	CACTCCTGTG	60
TTTTCAGATT	TTCCAGTCCA	TGGGATGGAG	CCCATGAACA	ATGCCACCAA	AGGCTGTGAC	120
GAGTCTGTGG	ATGAGGTCAC	AGCACCATGT	AGCTGCCAAG	ACTGCTCTAT	TGTCTGTGGC	180
CCCAAGCCCC	AGCCCCCACC	TCCTCCTGCT	CCCTGGACGA	TCCTTGGCTT	GGACGCCATG	240
TATGTCATCA	TGTGGATCAC	CTACATGGCG	TTTTTGCTTG	TGTTTTTTGG	AGCATTTTTT	300
GCAGTGTGGT	GCTACAGAAA	ACGGTATTTT	GTCTCCGAGT	ACACTCCCAT	CGATCTCGAG	360

- (2) INFORMATION FOR SEQ ID NO:1493:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 271 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1493:

GAATTCGGCC TTCATGGCCT AAGCAGACAA TATAGTAGTA ATTTAAATTT TTGTTTCCTG ACTTTCTGTA GTCCCTAAAC AAACAACAAA AAATCCTAGT AATCTTAAAC TTTTACATTA ATAGAGATCC AAGAGAAAAT AAGCCATTTT TCACCATTGT GGACCCAAAT AAATCATAGA CATGGTATTA AGAAGCCCTT TTCAGTCTGG TTGCAGTATT ATTTTCCTAC CTTTCTTTTT CCTGTTCCCT GCTGTATGCC CACAGCTCGA G	180
(2) INFORMATION FOR SEQ ID NO:1494:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 310 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1494:	
GAATTCGGCC TTCATGGCCT AATGGGTCAG AAATTTGGGC CTGGCTAAGT GGATCCTCCA CCCCAGGGTC TCTCACAAGG CTGCAATCAA AGGGCTGACT AGGACTTGGA ATCTCATTTG AAAGTTAGAT TGGGGAAGGA TCTGCTTCCA AGGTCACTCA GTAGTTACTG GCAGGATTAG GTTTCTCCAA GGTCGTTGGA CTAAGGGTCT CAGTTCCTCA CTGACAGTTG GCCTGAGGCT GCCTTCAGTT TCTTGCCATG TGGGCCTCCC CAGCATAACT GTTTACTTCA TCAAAACAAA CAAACTCGAG	60 120 180 240 300 310
(2) INFORMATION FOR SEQ ID NO:1495:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 138 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1495:	
GAATTCGGCC AAAGAGGCCT ACGTCGATTG AATTCTAGAC CTGCCTCAGC TCTAATTATG GTTCATGTTA GATTGTCTGC CCTTCCTCTT CCTCTTCTCT TTTGGGGAAA GATAATAGCA CTTAATAACG CCCTCGAG	60 120 138
(2) INFORMATION FOR SEQ ID NO:1496:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 102 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1496:	
GAATTCGGCC AAAGAGGCCT ACAAAATTGT TCCTTTTACG TACGACAGAC TTCTGAAATG	60 102
(2) INFORMATION FOR SEQ ID NO:1497:	

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 483 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1497: GAATTCGGCC AAAGAGGCCT ATTTGTTTCT TTGTACTGCC TAACTTTAGA AAGACCTGNA ANCGGTANCA TGAAAACATT TTTAGAGAGA ATTACCAGGC ATTTTTGGTA GAATGAGTGT 120 TTAATGGAAC AGTCCAGAGA ACTCATCAAA GATGTTTATT AAAACGCGCA GACCTGCTCC 180 AATTAAGGGC CCAGTCAGTG GTGTTAACAG TGAAGGGACT GTTCCAGAGG CGTGCTGCAC 240 GGGACGCCCA CCCCAAATAC AAATGGTTTG CCAGTAGCTC ACAAATGAAC CCCATTGCCT 300 TGCACTTAAG CTTCCTGAAG CACATACATA TCCTGCTTTG TGCTTTCCGC CCTATAGTAA 360 ACGCAAACCA ATGGAGATGT GAAGCAATCT AATAGCAACA AGGCAAACCT CTACTTCCTC 420 TAAAGAGGAT TGCATCCTCT TGCTATCTTT GCCGATGCTC TCCTACAGAC CCATCCGCTC 480 483 (2) INFORMATION FOR SEQ ID NO:1498; (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 144 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1498: GAATTCGCC AAAGAGGCCT AAAATTTCAA TAGGCTATAG AGTTTTCCAT GAGAGTGTGT 60 GTGTGTGTGT GTGTAAAGAA CTCTTACATT TCAGTGAGAA AATATTTTCA 120 TTGAAAGGAA ACACAGAACT CGAG 144 (2) INFORMATION FOR SEQ ID NO:1499: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 418 base pairs (B) TYPE: nucleic acid
  - - - (C) STRANDEDNESS: double
      - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1499:

GAATTCGGCC	AAAGAGGCCT	AAAATAACTG	TCCAATTAAC	TGAACACTGA	GGTAGCTGGG	60
TACAGACTTT	AGCGGCTACA	TTTGACAAAC	ATTGCAATTA	CAAGCAGCAA	CACAAACCAA	120
CCTTGGGATG	GGGATAGAAA	TCTTTTCNTT	CTTCNTTCTT	GGGGGTTTGA	GACAGAGTCT	180
CGCTCTGTCA	CCCAGGCCGG	AGTGCAGTGG	CGCAATCTCC	GCTCACTGCA	AACTCCACCT	240
CCTGGGTTCA	AGTGATCCTC	CTGCCTCAGC	CTCCCAAGTA	GCTTGGATTA	TGGGTGCCCA	300
CCACCATGCC	TGGCTAATTT	TTGTATGTTT	GATAGAAACG	GTGTTTCACC	CTGTTGACCA	360
GGCTGGCCTT	GAGCTCCTGA	CTTCAGGTGA	TCCACCTGCC	TCAGCCCCCC	GACTCGAG	418

- (2) INFORMATION FOR SEQ ID NO:1500:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 337 base pairs

- (B) TYPE: nucleic acid(C) STRANDEDNESS: double(D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1500:

GAATTCGGCC	AAAGAGGCCT	ACAAAGACCA	AGGTATCACA	TTCTGCCATT	AGCTGCTACC	60
TCTCCCTTCC	CCATTTTCAG	ACAGATTGAG	CCCACTTTTT	GTGTCCTCCT	CTGCTCTTAA	120
GCTGTTTCTC	ATCGTGGGTG	CTCAGCAACT	TGTCTGCTCT	CACTCTAGTT	TCTATTTGCT	180
TCCCTGAAAT	TAGCCTTTAA	CTATGCCCAG	ACAAGCCAGA	GCCTTGCCTA	AACTTCTAAT	240
TCCTCTGTGC	TTCTTAGTGT	ATCCTTTCTG	CCTGCTTGCC	TGCCTGCCTT	CCTGCCTGCT	300
TGCCTGCCTT	ACTGACCCTT	TGCCCCACGC	TCTCGAG			337

- (2) INFORMATION FOR SEQ ID NO:1501:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 105 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1501:

GAATTCGGCC	AAAGAGGCCT	AAACCGTCGA	TTGAATTCTA	GACCAGCCTC	ATCTCCTGTT	60
CCTCTCTCCC	TCCCAACTAT	GTTGGCCTCC	CTGCTGCTCC	TCGAG		105

- (2) INFORMATION FOR SEQ ID NO:1502:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 701 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1502:

GAATTCGGCC	AAAGAGGCCT	ACTGTGAACC	TAAAACTCCT	ATAAAGAAAA	GTAAAGTCTT	60
AAAAACAAAC	AAATACACAG	CAACAATCTT	ATTTTCCCCA	GCCTGTCTTA	TGTTAGGGTG	120
CAGATGTGAT	TTCTGTGTGG	CTAATCAGAT	GCCCTTGTGT	GAGAGACTGA	TTTGAACAGA	180
GGCAGGGGCA	TCCATCTTTC	TAGTGTCAGT	CACAGCAGAA	GCAGTGAGGT	CCTGGTGTCT	240
GTCGCTGCAG	TGGTGGCTTT	TGATACAGGA	GTTCCCTGAT	GGCAGTAGCT	TCTTTGTGGG	300
TTCAGTTCTG	TTGTGTGGTT	CTGCAAGTTC	AGCTTAGAGT	CTGTTTCTTC	AGCTGTTTCA	360
ATGACCCTCT	GAGCTGTCTA	CCATGAAAAA	TTCTATCCTG	CTTACACTAA	TTAGAGCCAA	420
TCCTGTTATT	TACAAATGAA	TATCCTGACC	AGTAATGAAG	GTCTAGACTT	AACTGTAATA	480
TTTTATGACT	TAAATTGTTG	GCATATGTGA	AAACTTTTTG	TTTATTCTAA	ACTTTTTTGT	540
TGTTGTTGTA	AAATAAAACA	TTTATGAAAA	GCGCACCAAA	AAGGATAACA	AATGAGAGTA	600
ATGCAACATA	CAGGCACCAG	CAACTCAGGC	CAGGGAGATG	ATATATGAGC	ATCCCCAATC	660
TCCCCTTTAC	ACTCCCTCAA	ATAACTCAAT	CAAGACTCGA	G		701

- (2) INFORMATION FOR SEQ ID NO:1503:
  - (i) SEQUENCE CHARACTERISTICS:
    (A) LENGTH: 257 base pairs

- (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1503: GAATTCGGCC TTCATGGCCT AGGAACTAGG TGACTTTGGG GCTCATCTCA CAAGTTTCCT 60 TACACTTAGG GATCAGTCTT TTGCTTCCTG TTGTCCTCTG CCTGAAAGTA GTTGCCAAGT 120 TGTACTGTTT TATATATCCA CCACAGCATG AGTTAAACCA AAGTCTGGAT CAGCAGACTG 180 CCAGATTTTT TTTTAACAAA TTTATTAATC AATACATTTT GTCCATGTCT ACAGTTGTTT 240 ATGGGGGAGA ACTCGAG 257 (2) INFORMATION FOR SEQ ID NO:1504: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 277 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1504: GAATTCGGCC TTCATGGCCT AGGGGACCTT GGGAGAATGT AATCCCTGCC CCTAGTCTCA 60 GTTTCTGCAT CCACGGAAGA GGGGTGAAGA TGGTCCCTAC CCCTCCAGAA TGTTCTTTTT 120 TTTTTTTTT AAAAAAAAA AAAAAAAAA AAAGTACGTT ATGTTTTCAG ATAAGAACAC 180 TTCTTCATGG ATGACTTGAA ATAATTGCCA TGGTCCCTAA GTTTTCCTCT CTGTAGATGA 240 ATGATATAGC TCAGTATCTA AGCAGTGGAT CCTCGAG 277 (2) INFORMATION FOR SEO ID NO:1505: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 341 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1505:

GAATTCGGCC	TTCATGGCCT	AGACCTGCCT	CGAGCCTCCC	AAGCTGCTGG	TATTACAGGC	60
GTGAACCACT	GCACCTGGCC	TAATACGATA	TTCTTACAAT	TTAAAAAATG	AAAGCAGAGG	120
AATGGTGGCA	GGGAAGCTGA	CATTTTAAGA	GTTCACTTCC	TTGTAGTTAT	CACAGTTAAT	180
TCTTACTGTT	AGAATAAGTG	GTAACTTGCC	AAGGTCACAT	TGCTAGATGT	CAGAGCAGAA	240
ATTAGAAATC	AGGTCTAGCC	AAGGCCATCA	CACTTCTCAG	AGCATTAACA	ATTCAATTCA	300
GTTAGTGTTT	ATTGAACACC	TATTGTGTTC	TGGCCCTCGA	G		341

- (2) INFORMATION FOR SEQ ID NO:1506:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 270 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear

- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1506:

GAATTCGGCC	TTCATGGCCT	AGGCATTTTG	TCTCTAGAAT	TACCCACCCG	TTCCTGCGCT	60
CTACGGTTCT	CCATGCCCCC	TCCAGTTTGG	GGGTCTAAAC	CGAACAGGAG	AGGTGCAGGG	120
GACCAGGAGG	${\tt TGTCCTGGCA}$	CAAAGGTTCG	GGGGTCTCCC	TGGCAAGGGG	TCCCAGGGCC	180
TGGAGCCCGA	GGCCCAGCCA	AAAGCACACA	GCATCAAAAC	ATGTTTTTAG	TGGGAAGCTC	240
CAGGCCCTGC	CCCTCCCCGG	GGGCCTCGAG				270

- (2) INFORMATION FOR SEQ ID NO:1507:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 462 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1507:

					TTGGGGGTGC	60
CCAAGTTGGG	AACCAGTGGA	GGGAGAGAGA	GGTAGGAGGT	AGATGGATGG	AGATCAAAGG	120
					GTACACTCAC	180
					AGAATGTGCC	240
					ATGCATGCAC	300
					TGGAGGAGGG	360
AGCTAGGGAC	CAGCAGAAGG	GCCTAGGTTT	CTGTAGCATC	ATTTTTAGCC	CTGGCTGAAT	420
CTGGGAAGCA	CCTGGTGGCT	TTAACATTCC	CGTTAGCTCG	AG		462

- (2) INFORMATION FOR SEQ ID NO:1508:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 694 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
      (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1508:

~						
		AGTCACAATC				60
		GTTTTTTTC				120
GTAAGTATGG	TGCAGAATTT	CATGCAAATG	AGGAGTGCCA	GCAGTGTGAT	AATTTAAACA	180
		AAATGAATGC				240
CTTCTAGGAC	CCGGTTTCTT	TTACTGATTT	AAAAACAAAA	CAAAAAAAAA	TAAAAAAGTT	300
GTGCCTGAAA	TGAATCTTGT	TTTTTTTTTT	AAGTAGCCGC	CTGGTTACTG	TGTCCTGTAA	360
AATACAGACA	CTTGACCCTT	GGTGTAGCTT	CTGTTCAACT	TTATATCACG	GGAATGGATG	420
GGTCTGATTT	CTTGGCCCTC	TTCTTGAATT	GGCCATATAC	AGGGTCCCTG	GCCAGTGGAC	480
TGAAGGCTTT	GTCTAAGATG	ACAAGGGTCA	GCTCAGGGGA	TGTGGGGGAG	GGCGGTTTTA	540
TCTTCCCCCT	TGTCGTTTGA	GGTTTTGATC	TCTGGGTAAA	GAGGCCGTTT	ATCTTTGTAA	600
ACACGAAACA	TTTTTGCTTT	CTCAAGTTTT	CTGTTAATGG	CGAAAGAATG	GAAGCGAATA	660
AAGTTTTACT	GATTTTTGAG	ACACTAGACT	CGAG			694

- (2) INFORMATION FOR SEQ ID NO:1509:
  - (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 490 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1509:

GAATTCGGCC	TTCATGGCCT	AATGAGGTTC	TATCTAGAGG	TGATGGGAGA	CAGTGACAGA	60
TCATCAGGCA	TTAGATTCTC	ATAAGGACTG	CGCAACCTAG	ATCCCTTGAA	TGAACAGTTC	120
ACAATAGGGT	TCACTCTCCA	ATGAGAATCT	AATGCTGCCG	CTGATCTGAC	AGGTGCCAGA	180
GCTCAGGCGG	TAATACGAGA	GGCTGGAGAT	ACAGATAAAG	CTTCAGTTGC	TTGCCCGCCA	240
CTTACCTCCT	CTTGTGCGGC	CCAGTTCCTA	ACAGGCCACA	GACCGCTACC	AGTCCATGGC	300
CTGGAAGTTG	GGGACCCCTC	TACTGGGATA	TTTATAATTG	CATATGTGGT	TACCTAATAT	360
TTCCATGATA	CAACACTGGT	CTAGATTCTA	GGCCATTCTC	CTTCAAAAAG	AACCCTGCTT	420
CCTTACAGTT	TTACTGTTTA	GCAGCAATGT	TTTCTACCCC	TTCTTAAAAT	TTTCAGCCAC	480
CACACTCGAG						490

- (2) INFORMATION FOR SEQ ID NO:1510:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 313 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1510:

GAATTCGGCC	TTCATGGCCT	ACTCTCTCAT	TCCTACCCTC	CTCCCCTCCA	CTCACGCTCC	60
TCCCAATCCC	CAAGGTCCTC	TCATTCCCAC	CTTCCTCCCT	TCCTCTCCTC	ACGCTCCTCC	120
CTATCCCCGA	GCTCCTCTCT	CATCCCTACC	CTCCTCCCCT	CCACTCACGC	TCCTCCCAAT	180
CCCCAAGGTC	CTCTCATTCC	CACCTTCCTC	CCTTCCTCTC	CTCACGCTCC	TCCCTATCCC	240
CGAGCTCCTC	TCTCACTCCC	TCCCTCCTCT	CATGCTCCTC	CCCCCTCTCC	TCATGCTCCT	300
CCCCATCCTC	GAG					313

- (2) INFORMATION FOR SEQ ID NO:1511:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 354 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1511:

GCCGGGTGGG	CCGGAGGTGG	CGCGGCCGCA	CGGCTTTGTT	CCGGAAAGCC	CTTAGGTGGA	60
GAGCGATGTG	GGGCGCGCA	GGGGGATCGC	GTAGAGGAAC	CTTCGCGCAC	CGCCTCTCCG	120
GGTCTGGGAA	TCTGCTGAAC	TCCTTGCCTC	TCTTGGGGTC	CCTCGAACGC	CCCAGCTAAG	180
AAGGGCGGGG	GCCTTGCCAG	GGCGCGAGCA	ACATGACGTT	CAAGGTCTTC	CTGTGGCTTC	240
TGTAAAGAAA	TGTTCACGTG	GGAGCCTGTC	CACATGGGCT	GTACTAAGGA	TCTGGCACGA	300
GGAAGAAATA	TCACTGCAGA	ACCTGAAGCC	CTCCGTTGGA	AGGGTCACCT	CGAG	354

(2) INFORMATION FOR SEQ ID NO:1512:

(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 407 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1512: GAATTCGGCC AAAGAGGCCT AGAGCAGCTT GGCTAAAAGT AAGGGTGTCG TGCTGATGGC CCTGTGCGCA CTGACCCGCG CTCTGCGCTC TCTGAACCTG GCGCCCCCGA CCGTCGCCGC 120 CCCTGCCCG AGTCTGTTCC CCGCCGCCCA GATGATGAAC AATGGCCTCC TCCAACAGCC 180 CTCTGCCTTG ATGTTGCTCC CCTGCCGCCC AGTTCTTACT TCTGTGGCCC TTAATGCCAA 240 CTTTGTGTCC TGGAAGAGTC GTACCAAGTA CACCATTACA CCAGTGAAGA TGAGGAAGTC TGGGGGCCGA GACCACACG GTGGGAACAA GGACAGGGGG ATTTAAGCAG TCAAAAGGAA 360 AAACATGTTA AGACCCTAGA CTTGTATATT GACACACAGA ACTCGAG 407 (2) INFORMATION FOR SEQ ID NO:1513: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 422 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1513: GAATTCGGCC AAAGAGGCCT ACATTCATAC AATTACAGAA TTCAAATATT GCAAAAGGAT 60 GTGTGTCTTT CTCCCCGAGC TCCCCTGTTC CCCTTCATTG AAAACCACCA CGGTGCCATC 120 TCTTGTGTAT GCAGGGCTAT GCACCTGCAG GCACGTGTGT ATGCACTCCC CGCTTGTGTT 180 TACACAAGCT GTGGGGTGTT ACGCATGCCT GCTTTTTTCA CTTAATAATA CAGCTTGGAG AGATTTTTGT ATCACATTAT AAATCCCACT CGCTCTTTTT GATGGCCACA TAATAACTAC 300 TGCATAATAT GGATACGCCT TATTTGATTT AACTAGTTCC CTAATGATGG ACTTTTAAGT 360 TGTTTCCTTT TTTTTCTTT TTTGCTACTG CAAACGATGC TATCTAGGCC TCTTTGGCCG 420 (2) INFORMATION FOR SEQ ID NO:1514: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 485 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: double (D) TOPOLOGY: linear (ii) MOLECULE TYPE: cDNA (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1514:

GAATTCGGCC AAAGAGGCCT ATGGAAATTC AAGACCTGAT GTTTGAGGAG ATGAGGGAAA 60 CTCTTAAAAA TGACCTAAAA GCAGTTTTAG GAGGAAAAGC TACAATACCT GAGGTAAAGA 120 ATTCAGAGAA CTCCAGTAGT AGGACAGAGT TTCAGCAAAT AATCAATTTA GCATTACAAA 180 AAACAGGGAT GGTAGGGAAA ATAGAAGGAG AAAACTCTAA AATAGGTGAT GATAATGAAA 240 ATTTAACCTT TAAATTAGAA GTAAATGAGC TGAGTGGTAA ATTAGACAAC ACTAACGAAT 300 ACAATAGTAA TGATGGTAAG AAATTACCCC AGGGTGAATC ACGAAGTTAC GAAGTCATGG 360 GAAGTATGGA AGAAACCTTA TGCAATATAG ATGACAGAGA TGGAAATCGC AATGTCCATT 420 TAGAATTTAC AGAAAGAGA AGTAGGAAGG ATGGAGAGGA TGAATTTGTC AAAGAAAAAC 480 TCGAG

. 485

(2) INFORMATION FOR SEQ ID NO:1515:	
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 400 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1515:	
GAATTCGGCC AAAGAGGCCT AGGCACAGAA GGGTGGTGAG TGTGATCAAA TCTAGTCTCA CTCCCACTTT TTAGTCTCAC TCCTACTTTT GTCCACCACC CAGGCACGGA GAGAAAGGAA TGTTTAGGCC AAGACACAGC GGAGCTCGGG ATTGGCTAAA CTCCCATAGT ATTTATGGTG GCCGCCGGGG GGGGCCCCAG CCCAGCTTGC AGGCCACCTC TAGCTTTCTT CCTACCCCAT TCCCGGCTTC CCTCCTCCTC CCCTGCAGCC TGGTTAGGTG GATACCTGCC CTGACATGTG AGGCAAGCTA AGGCCTGAG GGTCAGATGG GAGACCAGGT CCCAAGGGAG CAAGACCTCG CGAAGCGCAG CAGCCCCGGC CCTAGGCCTC TTTGGCCGAA	60 120 180 240 300 360 400
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 145 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: CDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1516:	
GAATTCGCGG CCGCGTCGAC GTCGACGCGG CCGCGAATTC GGCCAAAGAG GCCTACCCAT GTCAATCAAG ATGGGTGATT ATGAAATGCC AGACTTCTAA AATAAATGTT TTGGAATTCA ATGGGTAAAT AAATGCTGGC TCGAG  (2) INFORMATION FOR SEQ ID NO:1517:	60 120 145
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 277 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: double  (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1517:	
GCTGGACCTC CTGTGCAAGA ACATGAAACA GCTGTGGTTC TTCCTTCTCC TGGTGGCAGC TCCCAGATCG GTTCTGTCCC AGGTGCAGCT GCGGGAGTCG GGCCCAGGAC TGGTGAAGCC TTCGGAGACC CTGTCCCTCA CCTGCACTGT CTCTGGTACT TCCGTCAGAA GTGTTAGTTA CGACTGGAGT TGGCTCCGGC AGTCCCCGGG GAAGGGACTG GAGTGGCTTG GAGAGATTGA TTACAGGGGG AGAGGCAATT ACAACCCGTC CCTCGAG	60 120 180 240 277
TCCCAGATCG GTTCTGTCCC AGGTGCAGCT GCGGGAGTCG GGCCCAGGAC TGGTGAAGCC TTCGGAGACC CTGTCCCTCA CCTGCACTGT CTCTGGTACT TCCGTCAGAA GTGTTAGTTA CGACTGGAGT TGGCTCCGGC AGTCCCCGGG GAAGGGACTG GAGTGGCTTG GAGAGATTGA	120 180 240

(A)	LENGTH: 161 ba	ase pairs
(B)	TYPE: nucleic	acid
(C)	STRANDEDNESS:	double

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1518:

GAATTCGGCC	AAAGAGGCCT	ACTCATGCAC	CTAATTGGAT	CCTATCTTTG	TGTTGTTAGC	60
TGGTTATTAT	GCAGACTTTA	TTATGTGGTT	GTTTTATAGT	GTCCATAACC	TATGTACTTA	120
AGTTTGTTTT	TGTGGTGGCG	CTTCCAATTA	GGGCTCTCGA	G		161

- (2) INFORMATION FOR SEQ ID NO:1519:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 561 base pairs
      (B) TYPE: nucleic acid

    - (C) STRANDEDNESS: double
    - (D) TOPOLOGY: linear
  - (ii) MOLECULE TYPE: cDNA
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1519:

GAATTCGGCC	TTCATGGCCT	AATATAAAAC	AATGTTTTTC	AAGGCATTAT	ATAATAGGCT	60
AAGGACAGTG	ACCTCCAAGA	GACAGCAAAC	AAGGTAATAC	CTGTGACTGC	TCCAGCTTAC	120
TGCCTTGAGA	GAATTAATAG	TAGGTTTGTG	GTACAGGGAG	GGAGLATCCA	GTCAGAGCCC	180
AGCGGACTTG	CTGAATTAAG	GAAATGGAGC	TGAGAGTCCA	GAGAGACCAA	CATGGCTAAA	240
GTTGTCATGA	CAGAGCACTC	AGAACTAGAG	AGCTGCACAG	CAACATAACC	TAAGAGCTCT	300
GAAGATAATC	TCCCTCAAAT	ACTCAGCTGA	GTACTGATCA	ACATATATGT	GTGAGGAAGC	360
TATCTGAGGC	TGACAAAGAA	CTGCCTGAAG	AGATTAGAGG	GAACAGTACT	TGGCACTCAC	420
ACAGAATTGG	AAACTGTACC	TGTTCCCACC	AGCCAAACTG	GAAAAACCTC	AGGATTCATG	480
GGGTACTCAG	AAAGGACTTG	CATCAGGTAT	GGGGAATAAT	TAGCCCTAGA	CAGAGCACTG	540
CTCTAATCCC	ATCCACTCGA	G				561

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

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NO:1465, SEQ ID NO:1466, SEQ ID NO:1467, SEQ ID NO:1468, SEQ ID NO:1469, SEQ ID NO:1470, SEQ ID NO:1471, SEQ ID NO:1472, SEQ ID NO:1473, SEQ ID NO:1474, SEQ ID NO:1475, SEQ ID NO:1476, SEQ ID NO:1477, SEQ ID NO:1478, SEQ ID NO:1479, SEQ ID NO:1480, SEQ ID NO:1481, SEQ ID NO:1482, SEQ ID NO:1483, SEQ ID NO:1484, SEQ ID NO:1485, SEQ ID NO:1486, SEQ ID NO:1487, SEQ ID NO:1488, SEQ ID NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, SEQ ID NO:1500, SEQ ID NO:1501, SEQ ID NO:1502, SEQ ID NO:1503, SEQ ID NO:1504, SEQ ID NO:1505, SEQ ID NO:1506, SEQ ID NO:1507, SEQ ID NO:1508, SEQ ID NO:1513, SEQ ID NO:1514, SEQ ID NO:1515, SEQ ID NO:1516, SEQ ID NO:1517, SEQ ID NO:1518, and SEQ ID NO:1519;

or a complement of said sequence.

2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

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NO:1517, SEQ ID NO:1518, and SEQ ID NO:1519;
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or a complement of said sequence.

3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID

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NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, SEQ ID NO:1500, SEQ ID NO:1501, SEQ ID NO:1502, SEQ ID NO:1503, SEQ ID NO:1504, SEQ ID NO:1505, SEQ ID NO:1506, SEQ ID NO:1507, SEQ ID NO:1508, SEQ ID NO:1509, SEQ ID NO:1510, SEQ ID NO:1511, SEQ ID NO:1512, SEQ ID NO:1513, SEQ ID NO:1514, SEQ ID NO:1515, SEQ ID NO:1516, SEQ ID NO:1517, SEQ ID NO:1518, and SEQ ID NO:1519;

or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109,

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or to a complement of said sequence.

- 5. An isolated protein encoded by an isolated polynucleotide of claim 1.
- 6. An isolated protein encoded by an isolated polynucleotide of claim 2.
- 7. An isolated protein encoded by an isolated polynucleotide of claim 3.
- 8. An isolated protein encoded by an isolated polynucleotide of claim 4.